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**Distribution of the Varieties
and Classes of Wheat in
the United States
in 1944**

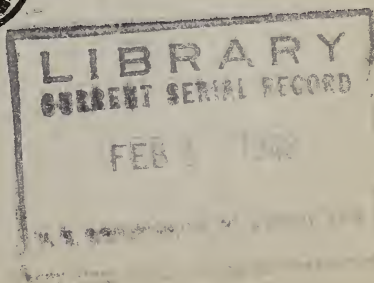
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Agricultural Research Administration**

UNITED STATES DEPARTMENT OF AGRICULTURE

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UNITED STATES DEPARTMENT OF AGRICULTURE

Distribution of the Varieties and Classes of Wheat in the United States in 1944

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HISTORY OF VARIETAL DISTRIBUTION

Wheat varieties grown in the United States are continually changing because of the development and distribution of improved strains by State and Federal agricultural experiment stations and by private breeders. This is especially true in the Middle West where wheat is a very important crop and growers are alert to the need for growing the newest and best varieties. In the older wheat-growing regions of the United States some varieties now grown have been in cultivation for more than a hundred years, but these are gradually being replaced by newer and superior types. Varietal surveys furnish a historical record of this shifting of varieties, and, in addition, they form a basis for further wheat improvement. For these reasons a wheat varietal

¹ The writers wish to express their appreciation to the agricultural statisticians of the field offices of the Division of Agricultural Statistics of the Bureau of Agricultural Economics, who participated in collecting the basic information for their report; and to Joseph A. Becker, formerly principal agricultural statistician, Richard K. Smith, principal agricultural statistician, and Julius H. Peters, senior agricultural statistician, Bureau of Agricultural Economics, for cooperation in preparing and compiling the questionnaires. The maps were made in the graphic section of the Bureau of Agricultural Economics.

survey has been made by the United States Department of Agriculture at 5-year intervals since 1919.²

This circular presents the estimated acreages as determined from the sixth survey, that for the crop year 1944. The estimated acreages by varieties and classes were computed from the seeded acreages of wheat, by counties, as estimated by the Bureau of Agricultural Economics. This is the second time that seeded acreages have been available and used. The earlier reports were based upon harvested acreages as reported by the regular and special agricultural census except in 1934, when seeded wheat acreages, as estimated by the Bureau of Agricultural Economics, were used for some of the important wheat-producing States where abandonment was heavy because of drought. Seeded acreage figures were used entirely for the 1939 and 1944 surveys.

The 1939 wheat acreages used in this circular (used also in Circular No. 634) are the preliminary estimates of the Crop Reporting Board, as prepared in December 1939 for States and in 1940 for counties. They differ somewhat from the Crop Reporting Board's revised State and county estimates that were prepared after the 1940 Federal Census enumeration of 1939 acreage became available. The 1944 acreages here used likewise are the preliminary estimates prepared in December 1944 and will be superseded by the Board's later revisions.

VARIETAL-SURVEY METHODS

The survey methods were the same as reported for 1939. Questionnaires were sent from the State offices of the Bureau of Agricultural Economics to crop correspondents of the United States Department of Agriculture and also to the agronomy department of some of the State agricultural experiment stations for distribution. The correspondents were requested to name the varieties of wheat grown in their locality and to estimate the percentage of the total acreage occupied by each. They also were asked to show the varieties and acreages of each grown on their own farms. These questionnaires were sent to reporters in all States for which the Bureau of Agricultural Economics estimated wheat acreages in 1944. Approximately 75,000 questionnaires were sent out.

About 12,000 schedules were returned. This was a rather low percentage, due in part to the rush of farm work and to an extreme shortage of labor. These returns were sorted and those containing usable information were compiled and the data assembled so as to combine the acreages for varieties with synonymous names. Insofar as possible,

² CLARK, J. A., MARTIN, J. H., and BALL, C. R. CLASSIFICATION OF AMERICAN WHEAT VARIETIES. U. S. Dept. Agr. Dept. Bul. 1074, 238 pp., illus. 1922.

——— MARTIN, J. H., QUISENBERRY, K. S., and others. DISTRIBUTION OF THE CLASSES AND VARIETIES OF WHEAT IN THE UNITED STATES. U. S. Dept. Agr. Dept. Bul. 1498, 68 pp., illus. 1929.

——— and QUISENBERRY, K. S. DISTRIBUTION OF THE VARIETIES AND CLASSES OF WHEAT IN THE UNITED STATES IN 1929. U. S. Dept. Agr. Cir. 283, 75 pp., illus. 1933.

——— and QUISENBERRY, K. S. DISTRIBUTION OF THE VARIETIES AND CLASSES OF WHEAT IN THE UNITED STATES IN 1934. U. S. Dept. Agr. Cir. 424, 68 pp., illus. 1937.

——— and QUISENBERRY, K. S. DISTRIBUTION OF THE VARIETIES AND CLASSES OF WHEAT IN THE UNITED STATES IN 1939. U. S. Dept. Agr. Cir. 634, 75 pp., illus. 1942.

the identity of misnamed varieties was determined, partly by the description of varieties as supplied by the correspondents and partly by local names, the synonymy of which had been determined previously. In some cases, seed or head samples and additional information were requested in an attempt to identify new names more accurately. Of the reports returned, 10,636 were usable, or about 600 less than in 1939. In reviewing the usable questionnaires of this survey it was felt that the reporters were becoming more "variety conscious" and that the information given, although not perfect, was more accurate than in the previous surveys. This probably is due, in part at least, to more emphasis being placed on varieties by growers, experiment stations, extension workers, farm papers, and the grain trade throughout the country.

Acreage percentages for each variety as reported by the correspondents from each county were averaged, and the county acreage as reported by the Bureau of Agricultural Economics was then broken down according to these average percentages. The result gave the estimated acreage for each variety by counties. These county figures were used as the basis for determining the total acreage of varieties for each crop-reporting district and State and for the United States. All varieties in each commercial class were then totaled for each district and State and for the United States.

Reports were not received from all counties in which wheat was reported as being grown. In order to make the data more complete, estimates were made by the writers for all such counties based on information for the same counties from previous surveys, from reports from adjacent counties, and the writers' personal knowledge. Some correspondents failed to report varieties totaling 100 percent of the acreage of their community, or they simply listed a certain percentage of "other varieties." Some reports contained varieties under local names that could not be identified. Owing to these discrepancies the acreage of wheat not accounted for by varieties is listed in the tables as "Others and not reported." The reported acreages of the varieties of durum and club wheats are somewhat incomplete, because these varieties were listed by many of the correspondents simply as "durum" or "club." Therefore, the varietal acreage is not complete for these groups of wheat.

Maps were made showing the distribution of the acreage of all wheat and also of the different market classes and the important varieties, the seeded county acreages being used as the basis.

In this survey the varietal names used are the ones recognized in Technical Bulletin 795³ and in the annual reports on varietal registration issued through a cooperative agreement between the Bureau of Plant Industry, Soils, and Agricultural Engineering and the American Society of Agronomy.

In 1919, 1924, 1929, 1934, 1939, and 1944, respectively, 139, 152, 190, 213, 208, and 217 distinct varieties were reported. In 1944, 36 new varieties were reported for the first time, and 7 that were not reported in 1939 but had been grown in previous years were again

³ CLARK, J. A., and BAYLES, B. B. CLASSIFICATION OF WHEAT VARIETIES GROWN IN THE UNITED STATES. U. S. Dept. Agr. Tech. Bul. 795, 146 pp., illus. 1942.

reported. A total of 34 varieties that were reported in 1939 were not reported again. A few other newly named varieties, which were known to have been grown in experiments and on small commercial acreages, were not shown in the survey. All varieties having no reported acreage in either 1939 or 1944 were dropped from the tables.

WHEAT ACREAGE OF THE UNITED STATES

The total seeded acreage of wheat in the United States in 1944 was slightly more than 65½ million, which is approximately 1¾ million acres larger than the 1939 seeded acreage. The 1944 seeded acreage is considerably larger than the acreage used in any of the earlier reports, except that for 1919, for which earlier years the harvested acreage was used. The distribution of the total seeded wheat acreage for the United States in 1944 is shown in figure 1.

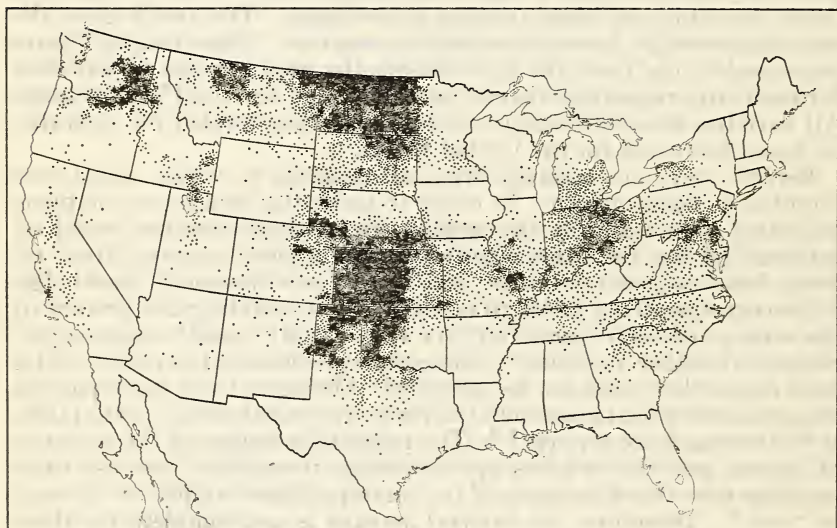


FIGURE 1.—Distribution of the total wheat acreage seeded in the United States in 1944. Each dot represents 5,000 acres. Estimated area, 65,684,000 acres.

The acreage figures used for the 1944 crop show some shifts in certain States as compared to 1939. Decided increases were reported in North Dakota, Washington, Texas, Oklahoma, South Dakota, North Carolina, Montana, and Oregon, while smaller increases were shown in Michigan, Tennessee, New York, Kentucky, and Georgia. In a number of the States decreases in acreages were reported, some of the larger ones being Kansas, Illinois, Indiana, Minnesota, Iowa, Nebraska, Missouri, and California. Smaller decreases were shown in Wyoming, Idaho, Colorado, West Virginia, and Wisconsin. These acreage shifts may have been caused partly by seasonal variation and partly by readjustments following control programs.

ESTIMATED ACREAGE OF VARIETIES

The estimated acreage in 1944 and 1939 and the percentage of the total wheat acreage occupied by each variety at 5-year intervals starting in 1919 are shown by States in table 1. In this table the classes and varieties are arranged in order of their 1944 acreage. Varieties reported in previous surveys but not reported in either 1944 or 1939 are not listed, but the percentage of the acreage occupied by them is included with "Others and not reported." The acreages in "Others and not reported" were distributed among the classes also.

TABLE 1.—*Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944*

[Figures in parentheses opposite the name of each State, under "Acreage," show the number of reports used in computing the data for each survey. The asterisk (*) indicates a variety reported as grown, but an estimate of acreage either was not given or if given was less than 0.1 percent of the total acreage of the State. The item "Others and not reported" is included in the total for classes.]

| State, class, and variety | Percentage | | | | | | Acreage | |
|--------------------------------|------------|------|-------|-------|-------|-------|---------|--------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Alabama: | | | | | | | (23) | (67) |
| Soft red winter | | | 100.0 | 100.0 | 100.0 | 100.0 | 7,000 | 18,000 |
| Purplestraw | 54.4 | 43.0 | 50.1 | 89.9 | 77.5 | 80.3 | 5,425 | 14,459 |
| Sanford | | | | | | 9.8 | | 1,771 |
| Flint | .6 | | | 7.1 | 12.2 | 4.1 | 855 | 729 |
| Leap | | | | | | 3.5 | | 632 |
| Fulcaster | 16.8 | 9.3 | 6.8 | | 3.4 | .2 | 240 | 36 |
| Redhart | | | | | | .1 | | 18 |
| Grandprize | | | | | .9 | | 60 | |
| Others and not reported | 28.2 | 47.7 | 43.1 | 3.0 | 6.0 | 2.0 | 420 | 355 |
| Total | | | | | | | 7,000 | 18,000 |
| Arizona: | | | | | | | (41) | (33) |
| White | | | 96.9 | 97.6 | 95.7 | 78.4 | 33,486 | 20,381 |
| Baart | 55.3 | 18.6 | 79.8 | 85.4 | 83.2 | 57.9 | 29,115 | 15,054 |
| Baart 38 | | | | | | 14.6 | | 3,811 |
| Sonora | 15.7 | 42.7 | 8.1 | 9.0 | 1.9 | 4.4 | 668 | 1,151 |
| White Federation | | | | | 6.4 | 1.3 | 2,250 | 333 |
| Club (varieties not reported) | 17.3 | 27.0 | 5.6 | 2.1 | 1.6 | .1 | 570 | 17 |
| Pacific Bluestem | 1.7 | .2 | 1.2 | .4 | | .1 | | 15 |
| Defiance | 1.1 | 1.5 | | .5 | .9 | | 315 | |
| Hard red winter | | | 2.1 | .8 | .5 | 21.1 | 173 | 5,496 |
| Turkey | 1.7 | .3 | 1.6 | .8 | .5 | 18.3 | 165 | 4,769 |
| Tenmarq | | | | | | 2.8 | | 727 |
| Hard red spring | | | .7 | 1.5 | 3.0 | .5 | 1,053 | 123 |
| Marquis | .8 | 3.1 | .5 | 1.5 | 2.7 | .5 | 927 | 123 |
| Hope | | | | | .2 | | 80 | |
| Durum | | | .3 | .1 | .8 | | 288 | |
| Durum (varieties not reported) | .6 | .1 | .3 | .1 | .8 | | 275 | |
| Others and not reported | 5.8 | 6.5 | 2.9 | .2 | 1.8 | | 635 | |
| Total | | | | | | | 35,000 | 26,000 |
| Arkansas: | | | | | | | (65) | (50) |
| Soft red winter | | | 100.0 | 90.4 | 96.4 | 97.8 | 47,225 | 63,539 |
| Red May | 24.9 | 6.0 | 5.2 | 26.8 | 21.0 | 44.7 | 10,278 | 29,017 |
| Fulcaster | 11.9 | 27.8 | 24.5 | 13.6 | 31.5 | 21.6 | 15,449 | 14,019 |
| Mediterranean | 9.4 | 21.6 | 30.6 | 10.5 | 16.0 | 20.4 | 7,855 | 13,281 |
| Purplestraw | 8.4 | 6.4 | 4.6 | 5.3 | 9.3 | 7.9 | 4,552 | 5,111 |
| Kawvale | | | | | 2.3 | 1.0 | 1,125 | 928 |
| Redhart | | | | | | 1.0 | | 658 |
| Early Premium | | | | | | .7 | | 465 |
| Flint | | | | | .7 | .1 | 337 | 60 |
| Fultz | 14.5 | 5.0 | 17.5 | 9.5 | 6.2 | | 3,010 | |
| Currell | 1.1 | .1 | 9.5 | 8.4 | 6.0 | | 2,914 | |
| Rice | | | | | 1.6 | | 799 | |
| Hard red winter | | | | 9.6 | 3.6 | 2.2 | 1,775 | 1,461 |
| Turkey | 5.6 | 5.2 | | 7.4 | 3.5 | 2.2 | 1,735 | 1,461 |
| Others and not reported | 24.2 | 27.9 | 8.1 | 18.5 | 1.9 | | 946 | |
| Total | | | | | | | 49,000 | 65,000 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|--------------------------------|------------|------|------|------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| California: | | | | | | | (224) | (196) |
| White | | | 98.8 | 99.4 | 99.8 | 99.5 | 723,077 | 592,990 |
| White Federation 38 | | | | | | 33.1 | 197,409 | |
| Baart 38 | | | | | | 27.3 | 162,746 | |
| Bunyip | (*) | 8.2 | 16.9 | 11.4 | 13.0 | 8.2 | 94,448 | 49,103 |
| Onas | | | 2.6 | 4.6 | 5.2 | 6.2 | 37,876 | 36,974 |
| Big Club | (*) | .2 | .1 | 5.5 | 4.7 | 4.0 | 34,159 | 23,792 |
| Baart | 10.7 | 32.1 | 24.8 | 27.6 | 26.6 | 3.8 | 193,029 | 22,584 |
| White Federation | | .4 | 5.9 | 17.1 | 29.4 | 3.8 | 212,883 | 22,574 |
| Ramona | | | | .1 | 1.2 | 2.3 | 8,682 | 13,735 |
| Federation | | (*) | 3.7 | 9.3 | 1.6 | 2.2 | 11,729 | 12,826 |
| Pacific Bluestem 37 | | | | | | .2 | 1,327 | 12,628 |
| Galgals | 1.6 | .8 | .7 | 1.1 | 1.9 | 1.7 | 13,547 | 10,394 |
| Pacific Bluestem | 40.4 | 13.8 | 14.4 | 7.1 | 5.5 | 1.7 | 39,454 | 9,852 |
| Poso | | | | .3 | 3.2 | 1.2 | 23,126 | 7,348 |
| Florence | | (*) | .2 | .5 | .2 | .6 | 1,739 | 3,592 |
| Sonora | 17.5 | 11.9 | 10.7 | 5.5 | 2.2 | .5 | 16,182 | 3,103 |
| Escondido | | | .3 | 2.5 | 2.2 | .2 | 15,925 | 1,107 |
| Pilcrow | | | | .5 | .4 | .1 | 2,886 | 627 |
| White Winter | .2 | .1 | (*) | (*) | .1 | .1 | 876 | 519 |
| Rex | | | | | | .1 | 496 | |
| Club (varieties not reported) | 10.3 | 16.7 | 8.0 | | .3 | .1 | 2,460 | 465 |
| Hard Federation | | .4 | 2.3 | (*) | .8 | .1 | 5,395 | 280 |
| Propo | 1.8 | 2.5 | 2.9 | .4 | .1 | | 392 | |
| Sonora 37 | | | | | (*) | | 241 | |
| Lynn | .9 | | | .4 | (*) | | 115 | |
| Hard red winter | | | .5 | .6 | .2 | .5 | 1,827 | 3,010 |
| Kanred | | | .1 | .3 | .1 | .3 | 714 | 1,688 |
| Turkey | .7 | .8 | .4 | .3 | .2 | .2 | 1,111 | 1,320 |
| Durum | | | | (*) | (*) | | 96 | |
| Durum (varieties not reported) | .1 | (*) | | (*) | (*) | | 95 | |
| Others and not reported | 15.8 | 12.1 | 6.0 | 5.5 | .9 | .1 | 6,609 | 838 |
| Total | | | | | | | 725,000 | 596,000 |
| Colorado: | | | | | | | (254) | (163) |
| Hard red winter | | | 75.0 | 79.2 | 79.5 | 88.3 | 1,321,976 | 1,419,538 |
| Turkey | 66.5 | 51.0 | 51.4 | 53.5 | 44.2 | 26.8 | 735,187 | 430,806 |
| Tenmarq | | | | | 2.8 | 22.6 | 45,767 | 383,100 |
| Blackhull | | .3 | 1.8 | 5.8 | 9.1 | 17.2 | 152,098 | 276,500 |
| Kanred | 23.5 | 17.5 | 14.4 | 19.4 | 13.7 | | 322,174 | 219,570 |
| Cheyenne | | | | | 2.7 | 4.4 | 44,231 | 71,208 |
| Chiefkan | | | | | (*) | 3.1 | 154 | 50,088 |
| Nebred | | | | | | .2 | 3,260 | |
| Red Chief | | | | | | .2 | 2,920 | |
| Early Blackhull | | | | | | .1 | 1,272 | |
| Nebraska No. 60 | | | 1.1 | 1.0 | .9 | .1 | 15,054 | 814 |
| Alton | | | 1.0 | | (*) | | 121 | |
| Hard red spring | | | 19.8 | 17.3 | 18.7 | 11.2 | 311,780 | 179,323 |
| Marquis | 9.4 | 13.9 | 17.0 | 12.7 | 7.5 | 4.3 | 124,712 | 69,494 |
| Ceres | | | | 3.0 | 5.1 | 3.1 | 85,509 | 50,065 |
| Thatcher | | | | | .7 | 2.8 | 11,539 | 45,584 |
| Komar | | | | .1 | 4.2 | .7 | 69,640 | 11,977 |
| Reward | | | | | | .1 | 1,806 | |
| Kitchener | | .1 | .2 | .2 | .2 | (*) | 2,671 | 275 |
| Red Bobs | | (*) | .1 | (*) | .1 | (*) | 2,127 | 122 |
| Kota | | | .2 | (*) | .4 | | 7,217 | |
| Sea Island | | | .4 | (*) | .4 | | 6,680 | |
| White | | | 2.6 | 2.6 | 1.3 | .5 | 21,051 | 8,677 |
| Defiance | 9.3 | 1.7 | 1.8 | 1.8 | .4 | .2 | 7,153 | 3,092 |
| Dicklow | | | .1 | .2 | .1 | .2 | 1,752 | 2,780 |
| Baart | (*) | | .1 | .2 | .7 | .2 | 10,944 | 2,734 |
| Surprise | .1 | | .2 | .1 | .1 | (*) | 1,048 | 71 |
| Soft red winter | | | .5 | .1 | .3 | | 4,315 | 462 |
| Jones Fife | .3 | .2 | .1 | .1 | .3 | (*) | 4,293 | 462 |
| Durum and red durum | | | 2.1 | .8 | .2 | | 3,878 | |
| Durum (varieties not reported) | 11.1 | 5.4 | 2.0 | .8 | .2 | | 3,857 | |
| Others and not reported | 3.3 | 3.9 | 5.0 | 6.1 | .5 | | 9,072 | |
| Total | | | | | | | 1,663,000 | 1,608,000 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------|------------|------|-------|-------|-------|-------|---------|---------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Delaware: | | | | | | | (23) | (8) |
| Soft red winter | | | 100.0 | 99.1 | 100.0 | 100.0 | 75,000 | 68,000 |
| Nittany | | 0.8 | 27.0 | 41.1 | 45.4 | 53.0 | 34,007 | 36,020 |
| Leap | 40.1 | 20.1 | 34.7 | 17.9 | 39.5 | 28.6 | 29,614 | 19,482 |
| Fulcaster | 15.0 | 63.7 | 19.1 | 24.7 | 5.8 | 7.2 | 4,349 | 4,875 |
| V. P. I. 131 | | | | | | 4.9 | | 3,363 |
| Fultz | 11.2 | 1.7 | 4.4 | .6 | 2.4 | | 1,831 | |
| Mammoth Red | | | 4.4 | 2.3 | 1.4 | | 1,079 | |
| Diehl-Mediterranean | | | | | 1.1 | | 850 | |
| Forward | | | 2.9 | 1.2 | .5 | | 360 | |
| Others and not reported | 63.7 | 13.7 | 7.5 | 12.2 | 3.9 | 6.3 | 2,910 | 4,260 |
| Total | | | | | | | 75,000 | 68,000 |
| Georgia: | | | | | | | (174) | (166) |
| Soft red winter | | | 100.0 | 100.0 | 100.0 | 100.0 | 196,000 | 243,000 |
| Purplestraw | 54.2 | 69.2 | 83.4 | 77.0 | 71.9 | 49.4 | 140,824 | 120,196 |
| Redhart | | | | 3.9 | 21.3 | 33.1 | 41,833 | 80,423 |
| Sanford | | | | | | 12.9 | | 31,339 |
| Hardired | | | | | | 1.9 | | 4,776 |
| Fulcaster | 12.4 | 7.1 | 3.2 | 3.7 | 1.3 | 1.8 | 2,598 | 4,404 |
| Gasta | | | | .6 | 1.7 | .5 | 3,278 | 1,123 |
| Leap | 1.6 | 1.7 | 2.6 | .1 | | .2 | | 473 |
| Flint | (*) | 2.2 | .5 | 5.9 | 2.5 | | 4,930 | 114 |
| Fultz | 1.5 | .9 | 1.1 | 2.4 | .3 | | 605 | |
| Mediterranean | .4 | 1.1 | .6 | | (*) | | 41 | |
| Others and not reported | 29.9 | 17.8 | 8.6 | 6.4 | 1.0 | .1 | 1,891 | 152 |
| Total | | | | | | | 196,000 | 243,000 |
| Idaho: | | | | | | | (387) | (286) |
| White | | | 61.3 | 60.2 | 54.9 | 56.1 | 527,652 | 592,869 |
| Federation | | 2.1 | 16.3 | 18.2 | 16.8 | 10.6 | 161,625 | 112,213 |
| Lemhi | | | | | (*) | 10.2 | 185 | 107,493 |
| Rex | | | | | 4.6 | 7.4 | 44,490 | 78,210 |
| Goldcoin | 8.1 | 8.4 | 8.7 | 3.6 | 3.9 | 7.4 | 37,908 | 77,717 |
| Baart | 1.3 | 11.1 | 8.6 | 7.1 | 6.9 | 7.1 | 66,286 | 74,642 |
| Dicklow | 14.0 | 10.6 | 14.7 | 14.8 | 10.4 | 5.2 | 99,797 | 55,148 |
| Idaed | | | | | .1 | 3.8 | 638 | 40,336 |
| Hymar | | | | | .8 | 1.6 | 7,486 | 16,739 |
| Golden | | | | | .9 | 1.2 | 9,014 | 12,250 |
| Pacific Bluestem | 12.4 | 6.8 | 3.3 | 1.5 | .8 | .3 | 7,992 | 3,097 |
| Florence | | .1 | 1.1 | .2 | .4 | .2 | 4,225 | 2,585 |
| Albit | | | .2 | 8.4 | 6.2 | .2 | 59,048 | 2,084 |
| Jenkin | 1.9 | 4.3 | 2.8 | 1.6 | .8 | .2 | 7,438 | 1,915 |
| Little Club | 2.2 | .8 | .1 | .1 | | .2 | | 1,644 |
| Hard Federation | | .1 | .2 | .1 | .1 | .2 | 595 | 1,624 |
| Sonora | 2.0 | 1.2 | .2 | .4 | .1 | .1 | 441 | 1,387 |
| Hybrid 128 | .2 | .4 | 2.0 | (*) | .1 | .1 | 488 | 1,313 |
| White Federation | | | | | .1 | (*) | 1,375 | 710 |
| Club (varieties not reported) | 3.9 | 2.5 | 1.3 | .6 | .5 | (*) | 4,468 | 559 |
| Wilhelmina | | | | 1.3 | .3 | (*) | 3,083 | 221 |
| Gypsum | .8 | .2 | | .2 | .1 | | 950 | |
| Mackey | | | | .5 | .1 | | 833 | |
| Utac | | | | | .1 | | 738 | |
| Surprise | .5 | 1.3 | | .1 | .1 | | 716 | |
| Defiance | 1.3 | .3 | (*) | | (*) | | 421 | |
| Martin | .6 | .1 | .1 | .3 | (*) | | 198 | |
| Canadian Red | | | | | (*) | | 167 | |
| Big Club | 1.1 | .2 | .1 | .1 | (*) | | 162 | |
| Requa | | | | | (*) | | 147 | |
| Powerclub | | .6 | .1 | .2 | (*) | | 59 | |
| Hard red winter | | | 26.4 | 30.5 | 36.7 | 37.5 | 352,462 | 395,712 |
| Turkey | 15.6 | 26.7 | 19.9 | 23.3 | 26.3 | 31.7 | 252,056 | 334,803 |
| Ridit | | | 2.8 | 4.3 | 5.2 | 3.1 | 49,818 | 32,722 |
| Mosida | | | .9 | 1.2 | 1.6 | 1.6 | 15,087 | 16,457 |
| Relief | | | | | .7 | .6 | 6,495 | 6,272 |
| Sherman | | | .1 | .2 | .3 | .2 | 2,543 | 1,824 |
| Kanred | | .9 | 1.7 | 1.0 | .4 | .2 | 4,097 | 1,548 |
| Oro | | | | .1 | .8 | .1 | 8,094 | 839 |
| Blackhull | | | (*) | .1 | .4 | .1 | 3,818 | 832 |
| Tenmarq | | | | | | (*) | | 83 |
| Utah Kanred | | | | | .7 | | 6,885 | |
| Yogo | | | | | (*) | | 98 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|---------------------------|------------|------|------|------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Idaho—Continued | | | | | | | | |
| Hard red spring | | | 7.5 | 5.8 | 6.4 | 5.1 | 61,214 | 53,926 |
| Marquis | 16.2 | 14.8 | 7.3 | 5.1 | 5.4 | 4.0 | 52,292 | 42,420 |
| Komar | | | | | (*) | .6 | (*) | 6,587 |
| Thatcher | | | | | (*) | .3 | | 92 |
| Garnet | | | | (*) | .3 | .1 | 2,821 | 712 |
| Ceres | | | | | .3 | (*) | 2,500 | 428 |
| Red Bobs | | (*) | .1 | .6 | .3 | (*) | 2,813 | 220 |
| Hope | | | | | (*) | | | 42 |
| Reward | | | | | (*) | | | 12 |
| Soft red winter | | | 4.8 | 3.5 | 2.0 | 1.3 | 18,672 | 13,493 |
| Red Russian | 3.4 | 1.2 | 2.3 | 1.9 | .4 | .5 | 3,750 | 4,701 |
| Triplet | | 2.3 | .9 | .4 | .7 | .4 | 6,770 | 4,266 |
| Lofthouse | .3 | | .2 | .2 | .4 | .3 | 4,022 | 3,093 |
| Jones Fife | 2.2 | 1.3 | 1.2 | .6 | .4 | .1 | 3,798 | 1,403 |
| Odessa | 1.3 | .1 | .1 | .3 | (*) | | | 82 |
| Others and not reported | 10.7 | 1.6 | 2.7 | 1.4 | 1.2 | .1 | 11,042 | 1,423 |
| Total | | | | | | | 960,000 | 1,056,000 |
| Illinois: | | | | | | | | |
| Soft red winter | | | 51.4 | 65.3 | 58.7 | 76.7 | (472) | (200) |
| Fultz | 24.2 | 23.0 | 19.8 | 25.9 | 18.2 | 19.2 | 1,144,912 | 1,033,246 |
| Fulhio | | | 3.1 | 10.0 | 18.8 | 16.8 | 355,476 | 258,830 |
| Fulcaster | 2.6 | 4.0 | 6.2 | 3.4 | 7.6 | 10.4 | 365,846 | 226,687 |
| Thorne | | | | | (*) | 4.9 | 147,455 | 139,419 |
| Mediterranean | 6.4 | 2.5 | 2.3 | 3.0 | 1.0 | 4.0 | 281 | 65,617 |
| Kawvale | | | | | 1.1 | 4.0 | 19,495 | 54,452 |
| Russian Red | .6 | .4 | .3 | .6 | | 3.3 | 20,712 | 53,818 |
| Clarkan | | | | | (*) | 2.4 | | 44,521 |
| Red May | 3.4 | 2.4 | 5.9 | 4.0 | 2.4 | 1.8 | 860 | 32,613 |
| Fultz-Mediterranean | 1.2 | .2 | .4 | .4 | .1 | 1.7 | 46,746 | 24,581 |
| Red Wave | 3.5 | 4.6 | 3.1 | 4.1 | 1.8 | 1.3 | 1,789 | 23,399 |
| Poole | 2.8 | 2.5 | 2.4 | 1.7 | .5 | 1.3 | 35,622 | 17,812 |
| Wabash | | | | | (*) | 1.2 | 9,132 | 17,063 |
| Rudy | .4 | .1 | .1 | .1 | .2 | 1.1 | 449 | 15,854 |
| Illinois No. 2 | | | | .1 | .6 | .9 | 3,109 | 14,845 |
| Nigger | .7 | .7 | .5 | .3 | .6 | .8 | 11,511 | 12,147 |
| Trumbull | | (*) | .5 | .7 | .2 | .4 | 12,317 | 11,225 |
| Goens | | | | | | .3 | 4,570 | 5,100 |
| Prosperity | | | | (*) | .3 | .2 | | 3,975 |
| Harvest Queen | 2.3 | 2.5 | .4 | .2 | .1 | .1 | 5,381 | 2,909 |
| Jones Fife | 3.1 | 1.5 | .8 | .5 | .6 | (*) | 2,188 | 906 |
| Nabob | | | | (*) | .2 | (*) | 10,801 | 512 |
| Fairfield | | | | | | (*) | 3,792 | 412 |
| Prairie | | | | | | (*) | | 355 |
| Red Rock | .1 | (*) | (*) | | (*) | (*) | | 244 |
| Currell | .5 | .1 | .2 | .1 | .2 | | 413 | 188 |
| Russian | | | | | .9 | | 3,331 | |
| Rice | | | | (*) | .1 | | 17,792 | |
| Purdue No. 1 | | | | | (*) | | 2,369 | |
| Early Premium | | | | | (*) | | 618 | |
| Shepherd | | | .2 | (*) | (*) | | 404 | |
| Hard red winter | | | 45.6 | 33.9 | 39.9 | 22.0 | 238 | |
| Turkey | 26.9 | 41.3 | 35.8 | 27.6 | 17.4 | 11.3 | 777,818 | 296,916 |
| Purkof | | | 1.7 | 5.2 | 8.5 | 2.6 | 339,806 | 151,721 |
| Brill | | | | | .2 | 2.3 | 165,795 | 35,092 |
| Cheyenne | | | | | .2 | 1.7 | 7,748 | 30,691 |
| Iobred | | | .4 | .3 | 4.3 | 1.1 | 42,474 | 22,566 |
| Minturki | | | .3 | .3 | .7 | 1.0 | 83,246 | 14,686 |
| Michikof | | | 2.4 | 1.4 | 2.9 | .8 | 13,937 | 12,930 |
| Kanred | | 4.7 | 2.2 | 1.2 | .6 | .5 | 56,564 | 11,090 |
| Ilred | | .4 | 1.1 | .4 | .2 | .4 | 11,556 | 6,809 |
| Wisconsin Pedigree No. 2 | | | | (*) | .5 | .2 | 3,801 | 4,633 |
| Tenmarq | | | | | (*) | .1 | 10,382 | 2,258 |
| Iowin | | | | | (*) | | 366 | 809 |
| Ukrainka | | | | .1 | .2 | (*) | 332 | 480 |
| Blackhull | | 2.7 | .3 | .2 | .1 | (*) | 4,191 | 390 |
| Red Chief | | | | | | (*) | 984 | 265 |
| White | | | .1 | | | .7 | | 232 |
| Dawson | | | | | | .7 | | 8,812 |
| Hard red spring | | | 2.9 | .8 | 1.4 | .6 | 8,755 | |
| Thatcher | | | | | .1 | .6 | 28,270 | 8,026 |
| Progress | | | .1 | .1 | .9 | | 2,292 | 8,000 |
| Marquis | 11.3 | 1.1 | 1.6 | .4 | .2 | | 16,952 | |
| Preston | .6 | .1 | .3 | .1 | .1 | | 3,887 | |
| | | | | | | | 2,369 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|------------------------------|------------|-------|-------|-------|-------|-------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Illinois—Continued | | | | | | | | |
| Hard red spring—Continued | | | | | | | | |
| Java..... | 0.1 | ----- | 0.7 | 0.2 | 0.1 | ----- | 1,414 | ----- |
| Sturgeon..... | ----- | ----- | ----- | (*) | (*) | ----- | 101 | ----- |
| Others and not reported..... | 9.3 | 5.2 | 6.9 | 7.4 | 5.1 | 0.6 | 100,106 | 8,109 |
| Total..... | ----- | ----- | ----- | ----- | ----- | ----- | 1,951,000 | 1,347,000 |
| Indiana: | | | | | | | (475) | (130) |
| Soft red winter..... | | | 89.6 | 94.1 | 84.4 | 85.3 | 1,373,644 | 1,141,447 |
| Fultz..... | 14.7 | 16.9 | 17.2 | 22.3 | 21.0 | 26.4 | 341,575 | 352,767 |
| Rudy..... | 8.5 | 12.4 | 9.3 | 10.1 | 12.9 | 13.4 | 210,337 | 179,581 |
| Trumbull..... | ----- | .5 | 2.9 | 4.9 | 9.6 | 11.1 | 155,881 | 147,869 |
| Red May..... | 5.3 | 8.4 | 15.4 | 17.4 | 12.1 | 7.2 | 197,556 | 96,146 |
| Thorne..... | ----- | ----- | ----- | ----- | (*) | 5.1 | 64 | 68,701 |
| Poole..... | 25.3 | 19.1 | 12.8 | 11.5 | 8.4 | 4.9 | 137,437 | 65,420 |
| Fairfield..... | ----- | ----- | ----- | ----- | ----- | 2.8 | ----- | 36,939 |
| Purdue No. 1..... | ----- | ----- | ----- | (*) | 3.3 | 2.7 | 53,630 | 36,651 |
| Wabash..... | ----- | ----- | ----- | ----- | ----- | 2.3 | 200 | 30,952 |
| Russian..... | ----- | ----- | ----- | ----- | ----- | 1.6 | ----- | 21,300 |
| Red Wave..... | 13.2 | 6.1 | 3.2 | 3.6 | 2.7 | 1.6 | 44,349 | 21,169 |
| Red Rock..... | .5 | .1 | .7 | .3 | .3 | 1.5 | 4,112 | 20,070 |
| Fulcaster..... | 1.3 | 4.6 | 1.9 | .8 | .9 | .4 | 13,958 | 4,755 |
| Fulhio..... | ----- | ----- | ----- | .1 | .4 | .2 | 7,121 | 3,165 |
| Wheedling..... | .4 | .2 | .1 | .2 | ----- | ----- | ----- | 1,350 |
| Currell..... | 1.0 | .6 | .7 | .4 | ----- | .1 | ----- | 1,220 |
| Goens..... | 2.2 | 3.3 | .6 | 1.6 | 3.5 | .1 | 56,879 | 590 |
| Illinois No. 2..... | ----- | ----- | ----- | ----- | ----- | (*) | ----- | 525 |
| Baldrock..... | ----- | ----- | ----- | ----- | .5 | (*) | 7,278 | 452 |
| Nigger..... | 3.6 | 2.9 | 3.3 | 2.3 | 2.2 | (*) | 35,335 | 350 |
| Jones Pife..... | .9 | .3 | .8 | .3 | 1.0 | ----- | 16,751 | ----- |
| Nittany..... | ----- | ----- | ----- | ----- | .1 | ----- | 2,231 | ----- |
| Mediterranean..... | 2.3 | 3.0 | .7 | .3 | .1 | ----- | 1,746 | ----- |
| Fultz-Mediterranean..... | 1.0 | .2 | .3 | .1 | .1 | ----- | 883 | ----- |
| Climax..... | (*) | .1 | .2 | .1 | (*) | ----- | 474 | ----- |
| Gladden..... | ----- | .1 | (*) | (*) | (*) | ----- | 233 | ----- |
| Hard red winter..... | ----- | ----- | 10.1 | 5.9 | 15.1 | 14.6 | 246,070 | 195,419 |
| Purkof..... | ----- | ----- | 10.6 | 10.2 | 11.2 | 8.9 | 181,609 | 120,243 |
| Turkey..... | 4.6 | 8.0 | 3.2 | 1.9 | .9 | 3.7 | 14,710 | 49,273 |
| Michikof..... | ----- | 3.3 | 5.7 | 3.4 | 1.9 | 1.4 | 31,671 | 18,332 |
| Kanred..... | ----- | .5 | 3.3 | .1 | .1 | ----- | 683 | ----- |
| Hard red spring..... | ----- | ----- | .1 | (*) | .3 | .1 | 4,084 | 1,107 |
| Java..... | ----- | ----- | ----- | ----- | .2 | .1 | 3,748 | 1,047 |
| White..... | ----- | ----- | .2 | ----- | .2 | ----- | 3,202 | ----- |
| Dawson..... | ----- | ----- | ----- | ----- | .2 | ----- | 2,929 | ----- |
| Others and not reported..... | 15.2 | 9.4 | 10.1 | 8.1 | 6.4 | 4.4 | 103,620 | 59,133 |
| Total..... | ----- | ----- | ----- | ----- | ----- | ----- | 1,627,000 | 1,338,000 |
| Iowa: | | | | | | | (211) | (187) |
| Hard red winter..... | ----- | ----- | 89.1 | 91.8 | 89.9 | 95.7 | 401,829 | 153,070 |
| Iowin..... | ----- | ----- | .2 | 2.4 | 21.2 | 50.3 | 94,785 | 80,504 |
| Iobred..... | ----- | .1 | 18.0 | 25.5 | 27.9 | 25.4 | 124,795 | 40,679 |
| Turkey..... | 52.1 | 64.8 | 58.4 | 52.5 | 30.1 | 15.2 | 134,717 | 24,346 |
| Ioturk..... | ----- | ----- | 1.0 | 2.6 | 2.4 | 2.7 | 10,622 | 4,281 |
| Kanred..... | ----- | 16.6 | 9.2 | 8.3 | 3.5 | 1.4 | 15,454 | 2,298 |
| Nebred..... | ----- | ----- | ----- | ----- | ----- | .2 | ----- | 243 |
| Blackhull..... | ----- | ----- | ----- | ----- | .9 | .1 | 4,181 | 151 |
| Minturki..... | ----- | .1 | .2 | ----- | .1 | ----- | 554 | ----- |
| Hard red spring..... | ----- | ----- | 7.9 | 6.6 | 9.6 | 4.0 | 42,879 | 6,432 |
| Thatcher..... | ----- | ----- | ----- | ----- | 7.1 | 3.7 | 31,644 | 5,841 |
| Ceres..... | ----- | ----- | .1 | .1 | ----- | .1 | ----- | 159 |
| Hope..... | ----- | ----- | ----- | .2 | .7 | .1 | 3,297 | 150 |
| Pilot..... | ----- | ----- | ----- | ----- | ----- | .1 | ----- | 100 |
| Mercury..... | ----- | ----- | ----- | ----- | ----- | (*) | ----- | 70 |
| Rival..... | ----- | ----- | ----- | ----- | ----- | (*) | ----- | 58 |
| Marquis..... | 28.0 | 6.4 | 5.0 | 5.0 | 1.0 | (*) | 4,394 | 18 |
| Komar..... | ----- | ----- | ----- | .2 | .4 | ----- | 1,805 | ----- |
| Marquillo..... | ----- | ----- | ----- | (*) | .1 | ----- | 278 | ----- |
| Preston..... | 4.5 | 1.3 | .9 | .5 | .1 | ----- | 217 | ----- |
| Java..... | .3 | 1.2 | .5 | .3 | (*) | ----- | 130 | ----- |
| Progress..... | ----- | ----- | ----- | ----- | (*) | ----- | 90 | ----- |
| Soft red winter..... | ----- | ----- | 2.4 | .4 | ----- | .1 | ----- | 209 |
| Kawvale..... | ----- | ----- | ----- | ----- | ----- | .1 | ----- | 208 |
| Durum..... | ----- | ----- | .4 | .7 | ----- | .1 | ----- | 159 |
| Pentad..... | ----- | ----- | ----- | .2 | ----- | .1 | ----- | 159 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|------------------------------|------------|------|------|------|-------|------|------------|------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Iowa—Continued | | | | | | | | |
| White..... | | | 0.2 | 0.5 | 0.5 | 0.1 | 2,292 | 130 |
| Florence..... | | | .2 | .5 | .5 | .1 | 2,265 | 130 |
| Others and not reported..... | 15.1 | 9.5 | 6.3 | 1.7 | 4.0 | .4 | 17,772 | 605 |
| Total..... | | | | | | | 447,000 | 160,000 |
| Kansas: | | | | | | | | |
| Hard red winter..... | | | 94.4 | 94.2 | 91.1 | 94.0 | (1,288) | (1,718) |
| Tenmarq..... | | | | 1.3 | 19.6 | 36.6 | 12,657,222 | 12,318,202 |
| Blackhull..... | (*) | 10.5 | 33.4 | 34.9 | 31.0 | 15.5 | 2,718,929 | 4,798,841 |
| Turkey..... | 82.3 | 61.6 | 48.0 | 44.3 | 28.9 | 14.7 | 4,308,178 | 2,029,311 |
| Early Blackhull..... | | | (*) | .6 | 1.6 | 9.0 | 4,018,469 | 1,922,832 |
| Chiefkan..... | | | | | 2.8 | 8.6 | 215,988 | 1,185,234 |
| Red Chief..... | | | | | | 4.4 | 382,431 | 1,132,498 |
| Kanred..... | .8 | 19.0 | 12.0 | 10.4 | 4.5 | 2.7 | 582,748 | 351,988 |
| Cheyenne..... | | | | (*) | .2 | .8 | 622,610 | 351,988 |
| Iobred..... | | | .2 | .1 | 1.1 | .6 | 21,916 | 103,361 |
| Redhull..... | | | (*) | .3 | .7 | .1 | 146,129 | 72,469 |
| Nebred..... | | | | | | .1 | 95,591 | 13,902 |
| Nebraska No. 60..... | | | (*) | (*) | (*) | .1 | 10,186 | 9,120 |
| Comanche..... | | | | | | .1 | 632 | 7,477 |
| Triumph..... | | | | | | .1 | 6,360 | 6,360 |
| Iowin..... | | | | | (*) | (*) | 647 | 5,198 |
| Kanhull..... | | | | | (*) | (*) | | 1,165 |
| Ukrainka..... | | | | | (*) | (*) | | 950 |
| Ioturk..... | | | | | (*) | (*) | 3,633 | 505 |
| Pawnee..... | | | | | (*) | (*) | | 423 |
| Eagle Chief..... | | | | | (*) | (*) | | 374 |
| Minturki..... | | | | | (*) | (*) | | 360 |
| Cooperatorka..... | | | | .3 | (*) | (*) | 259 | |
| Soft red winter..... | | | 5.3 | 5.6 | 8.8 | 5.9 | 1,229,334 | 778,249 |
| Kawvale..... | | | | .3 | 6.4 | 4.4 | 882,789 | 573,726 |
| Clarkan..... | | | | | .5 | 1.3 | 73,269 | 167,583 |
| Fulcaster..... | 1.0 | .4 | .6 | .8 | .5 | .1 | 64,393 | 13,299 |
| Jones Fife..... | | | .3 | .2 | (*) | .1 | 4,550 | 6,410 |
| Currell..... | 1.2 | .7 | 1.0 | 1.0 | .3 | (*) | 45,182 | 4,654 |
| Fultz..... | 3.0 | .5 | .6 | .4 | .2 | (*) | 23,123 | 1,680 |
| Mediterranean..... | .7 | .4 | .1 | .2 | .3 | (*) | 39,943 | 1,647 |
| Harvest Queen..... | 4.5 | 1.8 | 1.9 | 1.5 | .4 | (*) | 59,771 | 1,018 |
| Red Wave..... | .1 | (*) | .1 | .1 | (*) | (*) | 2,258 | 287 |
| Red Rock..... | | (*) | .1 | .1 | (*) | (*) | 8,703 | |
| Nigger..... | .1 | .2 | .1 | .2 | (*) | (*) | 6,240 | |
| Red May..... | 1.3 | .4 | .1 | .3 | (*) | (*) | 4,093 | |
| Kruse..... | | | (*) | (*) | (*) | (*) | 390 | |
| Gipsy..... | (*) | (*) | (*) | (*) | (*) | (*) | 400 | |
| Hard red spring..... | | | .2 | .2 | .1 | .1 | 8,444 | 6,549 |
| Thatcher..... | | | | | | (*) | | 3,639 |
| Reward..... | | | | | | (*) | | 2,870 |
| Marquis..... | (*) | | .1 | .2 | (*) | (*) | 2,700 | |
| Komar..... | | | | | (*) | (*) | 5,686 | |
| Others and not reported..... | 5.0 | 4.5 | 1.4 | 2.5 | 1.0 | .7 | 135,364 | 91,619 |
| Total..... | | | | | | | 13,895,000 | 13,103,000 |
| Kentucky: | | | | | | | | |
| Soft red winter..... | | | 98.2 | 98.5 | 100.0 | 99.0 | (209) | (118) |
| Fultz..... | 33.6 | 23.1 | 41.5 | 41.4 | 45.1 | 40.6 | 464,000 | 506,701 |
| Currell..... | 8.3 | 8.7 | 10.0 | 10.0 | 15.8 | 18.8 | 209,209 | 207,970 |
| Fulcaster..... | 11.8 | 27.5 | 10.6 | 11.5 | 15.5 | 11.7 | 73,423 | 96,117 |
| Tlorne..... | | | | | | 9.1 | 71,838 | 59,649 |
| Poole..... | 12.1 | 13.4 | 11.0 | 15.0 | 6.6 | 7.3 | 46,726 | 37,562 |
| Mediterranean..... | 6.0 | 6.6 | 6.8 | 5.4 | 4.0 | 3.3 | 30,594 | 37,562 |
| Purplestraw..... | (*) | | .3 | 1.0 | | 1.9 | 18,782 | 17,039 |
| Ashland..... | | 1.3 | 4.3 | .9 | .1 | 1.0 | 9,837 | 5,384 |
| Forward..... | | | | | | 1.0 | 396 | 4,884 |
| Leap..... | .2 | .8 | | .4 | .1 | .9 | 4,884 | 4,733 |
| Red May..... | 1.9 | 1.4 | .3 | 1.6 | .4 | .6 | 688 | 2,833 |
| Kentucky R 47..... | | | | | | .5 | 1,734 | 2,570 |
| Flint..... | | | | | | .5 | | 2,450 |
| Trumbull..... | | (*) | .7 | 1.1 | .7 | .4 | 3,071 | 2,004 |
| Nittany..... | | | | (*) | | .3 | | 1,646 |
| Jones Fife..... | .9 | (*) | 1.8 | 1.1 | .5 | .3 | 2,209 | 1,406 |
| Clarkan..... | | | | | | .2 | | 1,154 |
| Redhart..... | | | | | | .2 | | 810 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|------------------------------|------------|------|-------|-------|-------|-------|---------|---------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Kentucky—Continued | | | | | | | | |
| Soft red winter—Continued | | | | | | | | |
| Fulbio..... | | | | | | 0.1 | | 403 |
| Rice..... | 0.8 | 1.8 | 0.3 | 0.1 | 2.6 | | 12,071 | |
| Rudy..... | .7 | 1.2 | .8 | 1.8 | 1.5 | | 6,833 | |
| Red Wave..... | 4.2 | 1.3 | (*) | 1.1 | 1.3 | | 5,862 | |
| Russian Red..... | 1.3 | .4 | .8 | .6 | .3 | | 1,636 | |
| Hard red winter..... | | | 1.1 | 1.2 | | .8 | | 4,071 |
| Turkey..... | | | 1.0 | 1.1 | | .8 | | 4,030 |
| White..... | .1 | .1 | | | | .2 | | 1,228 |
| Yorkwin..... | | | .2 | (*) | | | | 1,223 |
| Others and not reported..... | 18.1 | 12.4 | 9.8 | 5.9 | 5.5 | .3 | 25,654 | 1,570 |
| Total..... | | | | | | | 464,000 | 512,000 |
| Maine: | | | | | | | | |
| Hard red spring..... | | | | 100.0 | 100.0 | 95.9 | (10) | (12) |
| Marquis..... | 71.2 | 57.8 | | 95.8 | 43.0 | 50.1 | 4,000 | 1,917 |
| Red Fife..... | 13.8 | 33.2 | | 2.3 | 10.5 | 22.2 | 1,720 | 1,002 |
| Garnet..... | | | | | 27.0 | 11.8 | 420 | 445 |
| Stanley..... | | | | | | 11.8 | 1,080 | 235 |
| Progress..... | | | | | 15.0 | | | 235 |
| Thatcher..... | | | | | 1.0 | | 600 | |
| White..... | | | | | | 4.1 | 40 | |
| White Fife..... | | | | | | 4.1 | | 83 |
| Others and not reported..... | 15.0 | 9.0 | | 1.9 | 3.5 | | | 83 |
| Total..... | | | | | | | 4,000 | 2,000 |
| Maryland: | | | | | | | | |
| Soft red winter..... | | | 100.0 | 100.0 | 100.0 | 100.0 | (114) | (82) |
| Leap..... | 6.6 | 14.5 | 20.9 | 28.5 | 23.1 | 37.9 | 396,000 | 401,000 |
| Nittany..... | | .3 | 6.3 | 7.2 | 12.0 | 19.3 | 91,268 | 151,930 |
| Leapland..... | | | | | 1.0 | 10.1 | 47,332 | 77,460 |
| Fulcaster..... | 26.8 | 42.9 | 25.5 | 31.5 | 30.8 | 8.7 | 4,057 | 40,399 |
| Mammoth Red..... | .2 | 1.0 | 9.7 | 10.3 | 6.2 | 7.0 | 122,054 | 34,792 |
| Fultz..... | 17.7 | 14.6 | 7.2 | 2.3 | 6.0 | 4.2 | 24,685 | 28,047 |
| Thorne..... | | | | | | 3.3 | 23,734 | 16,793 |
| Poole..... | 1.8 | 4.9 | 4.9 | .1 | .3 | 3.0 | 1,248 | 13,164 |
| China..... | 1.9 | 3.7 | 1.6 | .6 | 1.2 | 2.6 | 1,259 | 12,159 |
| Forward..... | | | 1.5 | 4.0 | 5.9 | 1.5 | 4,877 | 10,677 |
| Purplestraw..... | 2.0 | .6 | 3.4 | | .1 | 1.3 | 23,342 | 6,023 |
| Currell..... | 13.3 | 11.4 | 4.9 | 4.0 | 1.8 | .6 | 493 | 5,200 |
| Fultz-Mediterranean..... | 2.9 | .4 | .5 | .6 | | | 6,936 | 2,220 |
| Valprize..... | | | | | | .1 | | 1,600 |
| Redhart..... | | | | | | (*) | | 376 |
| Red Wave..... | 1.4 | .9 | .2 | .8 | .3 | | | 160 |
| Rudy..... | 2.0 | 1.0 | 1.2 | 1.2 | 1 | | 1,266 | 458 |
| Others and not reported..... | 23.4 | 3.8 | 12.2 | 8.9 | 11.2 | | 44,250 | |
| Total..... | | | | | | | 396,000 | 401,000 |
| Michigan: | | | | | | | | |
| White..... | | | 46.9 | 52.9 | 53.5 | 65.8 | (340) | (156) |
| Dawson..... | 6.1 | 3.3 | 2.3 | 40.4 | 47.3 | 46.3 | 409,974 | 638,974 |
| Yorkwin..... | | | | | (*) | 11.8 | 362,445 | 449,519 |
| Goldcoin..... | 15.1 | 20.7 | 40.4 | 8.3 | 4.0 | 2.9 | 286 | 114,124 |
| Soft red winter..... | | | 52.3 | 46.1 | 42.9 | 34.0 | 30,525 | 28,444 |
| Red Rock..... | 22.1 | 38.3 | 28.8 | 23.4 | 16.0 | 14.4 | 328,241 | 330,271 |
| Baldrock..... | | | | 3.0 | 13.2 | 8.6 | 122,336 | 140,076 |
| Thorne..... | | | | | | 3.2 | 101,386 | 84,054 |
| Poole..... | 2.5 | 4.9 | 1.8 | 1.7 | 1.3 | 1.3 | 31,346 | 31,346 |
| Red Wave..... | 6.6 | 6.4 | 5.6 | 5.0 | 2.0 | .9 | 9,841 | 12,169 |
| Nigger..... | 3.1 | 1.9 | 1.2 | 1.5 | .8 | .7 | 15,196 | 8,350 |
| Red May..... | 1.1 | 1.9 | 2.6 | 1.6 | | .5 | 6,154 | 7,178 |
| Berkley Rock..... | | | 2.1 | 2.5 | .9 | .4 | 5,060 | 3,872 |
| Forward..... | | | .1 | | (*) | .4 | 6,765 | 3,621 |
| Russian..... | | 2.0 | .6 | | 1.0 | .3 | 94 | 2,978 |
| Red Clawson..... | 3.9 | 1.9 | 1.1 | 1.5 | .7 | .3 | 7,545 | 5,513 |
| Trumbull..... | | .1 | 1.0 | .7 | 2.1 | .3 | 5,619 | 2,517 |
| Rudy..... | 2.1 | .4 | .5 | .3 | .7 | .2 | 15,649 | 4,904 |
| Fulcaster..... | .6 | 1.2 | .9 | .7 | 1.7 | .2 | 12,884 | 1,874 |
| Fultz..... | | | | | | .1 | | 768 |
| Jones Fife..... | .3 | .1 | | (*) | (*) | (*) | | 365 |
| Diehl-Mediterranean..... | 1.3 | 2.1 | .5 | .2 | .3 | | 2,465 | 217 |
| Harvest Queen..... | 1 | | (*) | | .1 | | 864 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|---------------------------|------------|------|------|------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Missouri: | | | | | | | (332) | (276) |
| Soft red winter | | | 91.5 | 94.1 | 87.4 | 92.9 | 1,647,634 | 1,592,839 |
| Clarkan | | | | | 3.4 | 38.6 | 63,895 | 661,730 |
| Fultz | 35.2 | 35.9 | 24.6 | 25.7 | 15.8 | 13.7 | 297,102 | 234,717 |
| Red May | 9.7 | 7.8 | 18.9 | 28.0 | 17.3 | 9.3 | 326,457 | 159,873 |
| Kawvale | | | | | 15.5 | 8.3 | 293,007 | 141,753 |
| Currell | 3.4 | 1.4 | 9.0 | 5.5 | 5.8 | 5.4 | 110,078 | 93,128 |
| Fulhio | | .1 | (*) | .5 | 3.6 | 3.7 | 68,349 | 63,273 |
| Red Wave | 1.7 | 5.3 | 2.9 | 3.3 | 1.8 | 3.6 | 33,856 | 62,311 |
| Fulcaster | 6.0 | 12.3 | 13.9 | 9.9 | 6.1 | 3.1 | 115,748 | 52,583 |
| Early Premium | | | | | 2.5 | 1.8 | 46,566 | 31,144 |
| Poole | 3.8 | 8.7 | 6.9 | 7.0 | 2.8 | 1.0 | 53,449 | 16,350 |
| Harvest Queen | 3.9 | 3.4 | 3.5 | 5.8 | 2.7 | .6 | 50,052 | 10,699 |
| Mediterranean | 7.5 | 4.4 | 2.6 | 3.0 | 1.3 | .6 | 24,870 | 10,649 |
| Thorne | | | | | | .5 | | 8,036 |
| Mealy | | | | | | .1 | | 2,362 |
| Russian Red | .3 | 1.0 | .1 | | .1 | .1 | 1,923 | 1,362 |
| Fultz-Mediterranean | 2.0 | 1.5 | .6 | .8 | .1 | .1 | 1,500 | 975 |
| Gipsy | .1 | .1 | .4 | .3 | | (*) | | 284 |
| Rice | | | | | 1.0 | | 18,085 | |
| Prosperity | .4 | | .1 | .3 | .6 | | 10,833 | |
| Valley | | | | .4 | .4 | | 8,029 | |
| Jones Fife | .6 | (*) | .1 | .3 | .1 | | 1,475 | |
| Redhart | | | | | (*) | | 49 | |
| Hard red winter | | | 8.5 | 5.9 | 12.6 | 7.0 | 237,890 | 118,891 |
| Iobred | | | .1 | .2 | 3.8 | 3.0 | 71,582 | 50,782 |
| Turkey | 13.0 | 7.6 | 6.3 | 4.9 | 6.0 | 2.7 | 113,177 | 47,304 |
| Kanred | | 1.9 | 1.3 | .5 | 1.3 | .6 | 24,242 | 9,544 |
| Iowin | | | | | .1 | .5 | 2,818 | 8,719 |
| Tenmarq | | | | | .2 | .1 | 4,316 | 846 |
| Blackhull | | (*) | .4 | | .5 | | 8,476 | |
| Ioturk | | | | (*) | .1 | | 2,150 | |
| Chiefkan | | | | | (*) | | 294 | |
| Cheyenne | | | | | (*) | | 202 | |
| Durum | | | | | | .1 | | 2,270 |
| Pentad | | | | | | .1 | | 2,250 |
| White | | | | | (*) | | 476 | |
| Arco | | | | | (*) | | 449 | |
| Others and not reported | 12.4 | 8.6 | 8.3 | 3.5 | 7.1 | 2.5 | 132,971 | 43,326 |
| Total | | | | | | | 1,886,000 | 1,714,000 |
| Montana: | | | | | | | (508) | (214) |
| Hard red spring | | | 82.2 | 77.2 | 76.8 | 69.9 | 3,104,931 | 3,015,211 |
| Marquis | 40.3 | 72.2 | 72.8 | 66.7 | 55.6 | 28.4 | 2,247,200 | 1,226,726 |
| Thatcher | | | | | 2.2 | 22.5 | 89,337 | 969,386 |
| Ceres | | | .4 | 4.4 | 16.0 | 13.3 | 646,368 | 574,323 |
| Pilot | | | | | (*) | 2.9 | (*) | 122,874 |
| Reward | | | (*) | .3 | .1 | 1.5 | 1,583 | 65,412 |
| Supreme | | | 6.8 | 5.4 | 2.7 | .9 | 110,018 | 38,112 |
| Regent | | | | | | .1 | | 3,563 |
| Canus | | | | | | .1 | | 3,348 |
| Red Bobs | | .4 | .2 | .1 | .1 | .1 | 4,099 | 3,315 |
| Komar | | | | (*) | | .1 | | 2,268 |
| Reliance | | | | .1 | | (*) | | 1,659 |
| Vesta | | | | | | (*) | | 587 |
| Red Fife | 3.2 | .6 | .1 | | (*) | | 1,248 | |
| Preston | 1.3 | .1 | .3 | | (*) | | 789 | |
| Carleeds | | | | | (*) | | 424 | |
| Renown | | | | | (*) | | 212 | |
| Garnet | | | | | (*) | | (*) | |
| Great Northern | | | | | (*) | | (*) | |
| Hard red winter | | | 15.5 | 20.0 | 21.6 | 28.6 | 874,232 | 1,233,631 |
| Turkey | 21.6 | 18.9 | 12.5 | 16.1 | 16.3 | 18.9 | 657,583 | 816,229 |
| Karmont | | (*) | 1.7 | 2.6 | 2.8 | 4.4 | 114,148 | 190,394 |
| Yogo | | | | | .5 | 3.1 | 20,873 | 134,956 |
| Newturk | | | .3 | .6 | 1.2 | 1.4 | 49,470 | 59,023 |
| Montana No. 36 | (*) | .7 | .7 | .5 | .6 | .4 | 24,500 | 15,256 |
| Ridit | | | | | (*) | .2 | 1,145 | 7,880 |
| Cache | | | | | | .1 | | 5,229 |
| Wasatch | | | | | | (*) | | 2,210 |
| Tenmarq | | | | | | (*) | | 1,675 |
| Kanred | | .1 | .2 | .2 | .2 | (*) | 5,383 | 450 |
| Mosida | | | | (*) | (*) | | 345 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------------|------------|------|------|-------|------|------|---------|---------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Nevada—Continued | | | | | | | | |
| White—Continued | | | | | | | | |
| White Federation 38..... | | | | | | 2.4 | | 431 |
| Pacific Bluestem..... | 30.5 | 12.8 | 8.8 | 11.2 | 2.7 | .5 | 438 | 93 |
| Hard Federation..... | | | 5.0 | 2.3 | 4.8 | | 766 | |
| Club (varieties not reported)..... | 17.3 | 4.6 | 19.9 | 1.8 | 3.8 | | 600 | |
| Sonora..... | 3.6 | 12.1 | | 8.0 | 2.6 | | 425 | |
| Hard red winter..... | | | 1.7 | 15.6 | 24.1 | 19.5 | 3,860 | 3,503 |
| Turkey..... | 7.3 | 27.9 | 1.7 | 15.5 | 18.1 | 19.5 | 2,900 | 3,503 |
| Tenmarq..... | | | | | 5.2 | | 825 | |
| Hard red spring..... | | | 2.3 | 2.2 | 1.3 | 3.4 | 202 | 610 |
| Thatcher..... | | | | | | 2.6 | | 472 |
| Komar..... | | | | | | .7 | | 115 |
| Marquis..... | 13.6 | 12.9 | 2.2 | 2.2 | 1.2 | .1 | 194 | 23 |
| Others and not reported..... | 26.8 | 9.4 | 12.7 | 2.1 | 3.9 | | 625 | |
| Total..... | | | | | | | 16,000 | 18,000 |
| New Jersey: | | | | | | | (63) | (28) |
| Soft red winter..... | | | 97.3 | 100.0 | 97.5 | 98.5 | 68,269 | 73,879 |
| Leap..... | 6.2 | 14.8 | 43.5 | 64.8 | 79.4 | 77.7 | 55,598 | 58,289 |
| Thorne..... | | | | | | 12.0 | | 9,000 |
| Nittany..... | | 2.6 | 12.1 | 13.7 | 8.1 | 4.1 | 5,656 | 3,078 |
| Forward..... | | | 8.3 | 10.9 | 5.4 | 1.7 | 3,812 | 1,296 |
| Mediterranean..... | 31.7 | 13.6 | .5 | | .1 | 1.1 | 58 | 777 |
| Fulcaster..... | 19.8 | 19.8 | 10.3 | 3.3 | 2.4 | | 1,653 | |
| Poole..... | | .2 | | | (*) | | 36 | |
| White..... | | | 2.7 | | 2.5 | 1.4 | 1,731 | 1,053 |
| Yorkwin..... | | | | | .2 | 1.0 | 117 | 733 |
| Dawson..... | | | .8 | | 2.3 | .4 | 1,577 | 280 |
| Honor..... | | | | | | (*) | | 30 |
| Hard red winter..... | | | | | | .1 | | 68 |
| Turkey..... | | | | | | .1 | | 66 |
| Others and not reported..... | 42.3 | 49.0 | 24.5 | 7.3 | 2.1 | 1.9 | 1,493 | 1,451 |
| Total..... | | | | | | | 70,000 | 75,000 |
| New Mexico: | | | | | | | (48) | (35) |
| Hard red winter..... | | | 91.6 | 93.0 | 93.9 | 92.0 | 345,646 | 307,221 |
| Blackhull..... | | | 1.0 | 7.0 | 8.8 | 67.8 | 32,588 | 226,354 |
| Turkey..... | 61.5 | 76.7 | 57.2 | 65.4 | 76.1 | 22.3 | 280,194 | 74,492 |
| Kanred..... | | 4.9 | 33.3 | 19.4 | 8.9 | 1.9 | 32,627 | 6,375 |
| Hard red spring..... | | | 2.4 | 4.1 | 4.3 | 6.9 | 15,962 | 23,180 |
| Thatcher..... | | | | | .1 | 3.2 | 200 | 10,663 |
| Marquis..... | 6.0 | 3.6 | 2.4 | 3.8 | 3.5 | 2.8 | 12,849 | 9,517 |
| Komar..... | | | | | .7 | .9 | 2,541 | 3,000 |
| Kota..... | | | | .2 | .1 | | 211 | |
| White..... | | | 5.0 | 2.4 | 1.6 | 1.1 | 5,789 | 3,599 |
| Sonora..... | 14.6 | 5.7 | 4.1 | 2.0 | 1.0 | 1.0 | 3,773 | 3,366 |
| Baart..... | 2.1 | .8 | .5 | (*) | .1 | .1 | 332 | 233 |
| Defiance..... | 2.5 | .7 | .3 | .2 | .4 | | 1,578 | |
| Durum..... | | | 1.0 | .5 | .2 | | 603 | |
| Durum (varieties not reported)..... | 7.1 | 4.4 | 1.0 | .4 | .2 | | 603 | |
| Others and not reported..... | 6.2 | 3.2 | .2 | 1.6 | .1 | | 504 | |
| Total..... | | | | | | | 368,000 | 334,000 |
| New York: | | | | | | | (191) | (191) |
| White..... | | | 82.5 | 80.1 | 85.3 | 92.1 | 237,170 | 339,975 |
| Yorkwin..... | | | | | 43.7 | 86.7 | 121,423 | 319,867 |
| Goldcoin..... | 47.9 | 69.1 | 57.7 | 48.0 | 20.3 | 2.2 | 56,475 | 7,947 |
| Honor..... | | 1.5 | 7.3 | 26.2 | 13.3 | 2.1 | 37,073 | 7,781 |
| Cornell 595..... | | | | | | .3 | | 1,126 |
| Dawson..... | 11.5 | 10.0 | 10.2 | 3.9 | 3.5 | | 9,692 | |
| Soft red winter..... | | | 15.3 | 18.6 | 13.8 | 7.1 | 38,276 | 26,089 |
| Nured..... | | | | | | 4.4 | | 16,185 |
| Forward..... | | .9 | 7.9 | 13.2 | 6.0 | 1.1 | 16,573 | 3,986 |
| Leap..... | .1 | .7 | .8 | .7 | .5 | .9 | 1,362 | 3,245 |
| Valprize..... | | | | 1.8 | 6.2 | .3 | 17,253 | 1,308 |
| Nittany..... | | .1 | .5 | .1 | (*) | .3 | 165 | 1,158 |
| Red Clawson..... | 1.0 | | | .2 | .4 | | 980 | |
| Hard red spring..... | | | 2.2 | 1.3 | .9 | .8 | 2,554 | 2,936 |
| Marquis..... | 11.3 | 1.0 | 2.0 | 1.2 | .9 | .8 | 2,482 | 2,935 |
| Others and not reported..... | 28.2 | 16.7 | 13.6 | 4.7 | 5.2 | .9 | 14,522 | 3,462 |
| Total..... | | | | | | | 278,000 | 369,000 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------------|------------|------|------|------|------|------|-----------|------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| North Carolina: | | | | | | | (338) | (487) |
| Soft red winter..... | | | 96.8 | 97.0 | 97.4 | 97.7 | 431,660 | 599,151 |
| Redhart..... | | | .7 | 11.0 | 28.9 | 54.6 | 128,059 | 334,711 |
| Leap..... | 24.7 | 18.0 | 23.4 | 28.1 | 17.4 | 10.8 | 77,029 | 66,023 |
| Purplestraw..... | 13.9 | 10.9 | 13.4 | 16.5 | 13.6 | 6.4 | 60,389 | 39,088 |
| Flint..... | 5.3 | 4.7 | 5.3 | 9.3 | 5.4 | 5.4 | 24,162 | 32,943 |
| Forward..... | | | | 1.6 | 5.0 | 5.3 | 22,069 | 32,915 |
| Fulcaster..... | 32.2 | 39.6 | 33.9 | 21.7 | 17.7 | 5.2 | 78,244 | 32,149 |
| Hardired..... | | | | | | 1.7 | | 10,730 |
| Carala..... | | | | | | 1.2 | | 7,247 |
| Fultz..... | 3.0 | 4.6 | 5.2 | 2.7 | 2.0 | 1.1 | 8,850 | 6,551 |
| V. P. I. 131..... | | | .4 | .9 | .3 | .5 | 1,446 | 3,010 |
| Rice..... | 1.2 | 2.2 | .3 | 1.2 | 1.0 | .4 | 4,346 | 2,541 |
| Oakley..... | .2 | .5 | .1 | | .1 | .4 | 657 | 2,531 |
| Fultz-Mediterranean..... | 1.2 | 4.3 | .4 | .1 | .5 | .4 | 2,187 | 2,289 |
| Nittany..... | | | | | .2 | .1 | 711 | 645 |
| Diehl-Mediterranean..... | | | | | | .1 | | 504 |
| Poole..... | (*) | .1 | .2 | .1 | 1.3 | .1 | 5,620 | 319 |
| White..... | | | 3.2 | 3.0 | 2.6 | 2.3 | 11,340 | 13,849 |
| Gresoon..... | .8 | 3.3 | 2.8 | 3.3 | 2.4 | 2.2 | 10,709 | 13,296 |
| Others and not reported..... | 17.5 | 11.8 | 13.9 | 3.5 | 4.2 | 4.1 | 18,522 | 25,508 |
| Total..... | | | | | | | 443,000 | 613,000 |
| North Dakota: | | | | | | | (1,038) | (715) |
| Hard red spring..... | | | 60.1 | 77.9 | 68.9 | 82.3 | 5,771,895 | 8,361,179 |
| Thatcher..... | | | | (*) | 41.6 | 26.4 | 3,481,333 | 2,680,753 |
| Rival..... | | | | | (*) | 25.8 | 1,011 | 2,617,083 |
| Regent..... | | | | | | 9.8 | | 995,776 |
| Pilot..... | | | | | (*) | 7.0 | 1,964 | 708,130 |
| Renown..... | | | | | .6 | 4.5 | 45,514 | 456,497 |
| Vesta..... | | | | | | 3.7 | | 373,795 |
| Ceres..... | | | 3.0 | 34.0 | 20.3 | 2.7 | 1,965,854 | 275,773 |
| Reward..... | | | (*) | 1.5 | 1.2 | .9 | 97,028 | 89,496 |
| Premier..... | | | | | | .3 | | 25,833 |
| Carleeds..... | | | | | 1.0 | .2 | 86,753 | 23,912 |
| Great Northern..... | | | | | .1 | .2 | 11,634 | 23,947 |
| Apex..... | | | | | (*) | .2 | 482 | 21,145 |
| Mida..... | | | | | | .2 | | 18,425 |
| Marquis..... | 47.0 | 52.9 | 52.6 | 39.4 | 3.0 | .1 | 251,481 | 11,480 |
| Marvel..... | | | (*) | .1 | .3 | (*) | 26,089 | 1,620 |
| Progress..... | | | .1 | .2 | .1 | (*) | 6,834 | 1,504 |
| Marquillo..... | | | | (*) | .2 | (*) | 18,101 | 1,414 |
| Preston..... | 8.4 | 2.7 | 1.4 | .9 | .1 | (*) | 8,855 | 1,100 |
| Kota..... | | 4.9 | .8 | .4 | | (*) | | 825 |
| Hope..... | | | | (*) | .2 | | 15,716 | |
| Coronation..... | | | | | (*) | | 2,182 | |
| Power..... | .1 | .6 | .2 | .2 | (*) | | 1,017 | |
| Ruby..... | | 3.3 | .9 | .3 | (*) | | 812 | |
| Komar..... | | | | (*) | (*) | | 801 | |
| Haynes Bluestem..... | 8.0 | .6 | .2 | .1 | (*) | | 516 | |
| Red Fife..... | 5.8 | 1.6 | .2 | .1 | (*) | | 267 | |
| Durum..... | | | 39.0 | 21.7 | 31.0 | 17.7 | 2,598,449 | 1,797,409 |
| Durum (varieties not reported)..... | 28.7 | 22.5 | 23.3 | 8.9 | 13.5 | 8.3 | 1,133,766 | 846,267 |
| Mindum..... | | | 3.0 | 4.0 | 8.2 | 6.0 | 686,288 | 612,189 |
| Kubanka..... | .3 | 5.3 | 6.9 | 6.9 | 5.0 | 1.6 | 418,301 | 163,435 |
| Pentad..... | .4 | 2.7 | 4.3 | 1.7 | 4.1 | 1.5 | 339,012 | 148,958 |
| Stewart..... | | | | | | .2 | | 12,389 |
| Carleton..... | | | | | | .1 | | 6,113 |
| Acme..... | (*) | .1 | .1 | (*) | | (*) | | 436 |
| Arnautka..... | | | .1 | (*) | .1 | | 4,908 | |
| Golden Ball..... | | | | | (*) | | 4,048 | |
| Monad..... | | .8 | .5 | .1 | (*) | | 2,233 | |
| Nodak..... | | (*) | .3 | (*) | (*) | | 1,892 | |
| Peliss..... | | (*) | (*) | .1 | (*) | | 957 | |
| Hard red winter..... | | | .2 | .2 | .1 | (*) | 4,300 | 2,566 |
| Turkey..... | .4 | .2 | .2 | .1 | .1 | (*) | 4,284 | 2,552 |
| White..... | | | .7 | .2 | (*) | (*) | 4,300 | 846 |
| Florence..... | | (*) | .7 | .2 | (*) | (*) | 3,346 | 840 |
| Others and not reported..... | .9 | 1.8 | 1.2 | .8 | .3 | .4 | 24,721 | 41,213 |
| Total..... | | | | | | | 8,378,000 | 10,162,000 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|------------------------------|------------|------|------|------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Ohio: | | | | | | | (451) | (516) |
| Soft red winter..... | | | 98.4 | 97.1 | 96.8 | 99.0 | 1,972,548 | 2,036,865 |
| Thorne..... | | | | | .1 | 56.0 | 2,894 | 1,153,185 |
| Trumbull..... | 0.1 | 32.1 | 53.6 | 50.7 | 54.0 | 20.8 | 1,100,763 | 427,267 |
| Fulhio..... | | 4.4 | 11.9 | 15.6 | 20.4 | 6.6 | 415,330 | 135,330 |
| Fultz..... | 10.3 | 5.8 | 2.9 | 4.1 | 2.7 | 2.8 | 53,947 | 57,899 |
| Nigger..... | 3.5 | 5.3 | 2.9 | 3.3 | 3.1 | 2.8 | 63,642 | 57,704 |
| Goens..... | 2.2 | 2.1 | .8 | 1.8 | 1.8 | 2.6 | 35,555 | 52,614 |
| Poole..... | 38.8 | 23.5 | 9.1 | 9.0 | 3.9 | .9 | 79,592 | 18,498 |
| Fulcaster..... | .8 | 1.2 | .7 | .7 | .3 | .7 | 5,726 | 14,107 |
| Gladden..... | .3 | 5.4 | 2.6 | 1.8 | 1.4 | .4 | 29,120 | 7,450 |
| Red May..... | .5 | .2 | .9 | .4 | .1 | .3 | 2,753 | 5,326 |
| Leap..... | (*) | .4 | 1.4 | .2 | .5 | .1 | 9,927 | 2,962 |
| Mediterranean..... | 1.9 | 1.6 | .7 | .4 | .2 | .1 | 4,190 | 2,640 |
| Rudy..... | 1.6 | .8 | .8 | .3 | .1 | .1 | 2,330 | 2,433 |
| Red Wave..... | 8.5 | 2.1 | 1.0 | 1.0 | .6 | .1 | 12,131 | 2,161 |
| Harvest Queen..... | | | | | | .1 | | 1,975 |
| Nittany..... | | | | | (*) | .1 | | 1,797 |
| Gipsy..... | 2.9 | 2.1 | 1.1 | 1.6 | .4 | (*) | 8,786 | 818 |
| Red Indian..... | | | | | .3 | (*) | 5,393 | 638 |
| Forward..... | | | | (*) | .2 | (*) | 3,209 | 605 |
| Portage..... | .1 | 3.1 | .8 | 1.2 | .3 | (*) | 6,812 | 524 |
| Red Clawson..... | | | | | .1 | | 1,719 | |
| Nabob..... | | | (*) | .1 | .1 | | 1,687 | |
| Valley..... | | | | | (*) | | 614 | |
| Red Rock..... | .1 | .1 | (*) | (*) | (*) | | 36 | |
| Purdue No. 1..... | | | | | (*) | | 29 | |
| White..... | | | .6 | 2.4 | 2.8 | .7 | 57,028 | 14,537 |
| Goldcoin..... | 2.6 | .9 | .5 | 2.3 | 2.5 | .6 | 50,712 | 11,711 |
| Dawson..... | .2 | | | (*) | .1 | .1 | 2,747 | 2,087 |
| Hard red winter..... | | | .7 | .3 | .4 | .3 | 7,911 | 6,598 |
| Turkey..... | .2 | .5 | .6 | .2 | .1 | .2 | 2,253 | 2,945 |
| Michikof..... | | | (*) | | .3 | .1 | 4,943 | 2,919 |
| Purkof..... | | | | (*) | (*) | (*) | 167 | 377 |
| Hard red spring..... | | | .3 | .2 | (*) | | 513 | |
| Preston..... | | (*) | .1 | (*) | (*) | | 494 | |
| Others and not reported..... | 25.4 | 8.4 | 7.6 | 5.3 | 6.4 | 4.5 | 130,499 | 92,028 |
| Total..... | | | | | | | 2,038,000 | 2,058,000 |
| Oklahoma: | | | | | | | (212) | (312) |
| Hard red winter..... | | | 91.6 | 85.4 | 91.1 | 95.8 | 4,417,099 | 4,988,485 |
| Tenmarq..... | | | | (*) | 10.0 | 40.3 | 484,321 | 2,096,400 |
| Blackhull..... | | 12.2 | 34.2 | 32.0 | 36.6 | 16.9 | 1,772,734 | 881,037 |
| Turkey..... | 68.6 | 52.3 | 47.4 | 44.9 | 29.3 | 15.0 | 1,420,815 | 782,167 |
| Early Blackhull..... | | | | | 1.9 | 7.0 | 92,729 | 363,437 |
| Chiefkan..... | | | | | 1.5 | 5.9 | 75,383 | 308,906 |
| Cheyenne..... | | | | (*) | .7 | 4.0 | 32,996 | 210,603 |
| Red Chief..... | | | | | | 3.5 | | 182,155 |
| Triumph..... | | | | | | 1.3 | | 65,878 |
| Kanred..... | .2 | 19.5 | 7.5 | 5.0 | 2.5 | .7 | 119,927 | 39,018 |
| Redhull..... | | | .1 | 1.1 | 1.2 | .4 | 59,216 | 22,206 |
| Reliant..... | | | | | | .1 | | 6,022 |
| Iobred..... | | | | (*) | (*) | .1 | 923 | 2,983 |
| Ioturk..... | | | | | | .1 | | 2,505 |
| Comanche..... | | | | | | (*) | | 1,632 |
| Sibley 81..... | | | | .6 | 1.5 | (*) | 74,077 | 1,500 |
| Alton..... | | | .1 | .2 | 2.9 | (*) | 140,218 | 1,215 |
| Pawnee..... | | | | | | (*) | | 228 |
| Nebred..... | | | | | | (*) | | 194 |
| Eagle Chief..... | | | .2 | .6 | .9 | | 45,690 | |
| Enid..... | | | | | .2 | | 7,756 | |
| Ukrainka..... | | | | | .1 | | 4,116 | |
| Soft red winter..... | | | 8.2 | 14.6 | 8.9 | 4.2 | 433,901 | 217,515 |
| Fulcaster..... | 6.8 | 5.3 | 2.1 | 2.9 | 2.5 | 1.2 | 123,532 | 59,832 |
| Currell..... | 1.5 | 1.9 | 1.6 | 4.5 | 3.0 | 1.0 | 144,934 | 52,699 |
| Clarkan..... | | | | | .1 | .8 | 6,541 | 39,119 |
| Red May..... | .8 | .4 | 1.0 | .6 | | .5 | | 25,455 |
| Kawvale..... | | | | | .4 | .3 | 19,308 | 14,415 |
| Mediterranean..... | 4.6 | 1.4 | 1.0 | 2.1 | .8 | .3 | 40,076 | 14,175 |
| Harvest Queen..... | 4.6 | 3.2 | .8 | 1.8 | 1.3 | .1 | 62,444 | 4,255 |
| Nigger..... | | | | | | .1 | | 4,037 |
| Fultz..... | 3.3 | .6 | .5 | 1.1 | .6 | (*) | 28,656 | 1,326 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|---------------------------|------------|------|------|------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Oklahoma—Continued | | | | | | | | |
| Soft red winter—Continued | | | | | | | | |
| Early Premium..... | | | | | | (*) | | 853 |
| Red Rock..... | | | | | | (*) | | 325 |
| Others and not reported | 9.6 | 3.2 | 3.5 | 2.6 | 2.0 | 0.4 | 94,608 | 21,423 |
| Total..... | | | | | | | 4,851,000 | 5,206,000 |
| Oregon: | | | | | | | (222) | (127) |
| White..... | | | 71.3 | 71.4 | 80.0 | 86.8 | 670,281 | 846,956 |
| Rex..... | | | | | 28.8 | 27.5 | 241,511 | 268,020 |
| Goldcoin..... | 14.4 | 10.4 | 13.4 | 10.4 | 4.7 | 14.4 | 39,103 | 140,121 |
| Federation..... | | 1.7 | 23.1 | 27.3 | 24.9 | 11.3 | 208,738 | 109,888 |
| Alicel..... | | | | | .3 | 6.1 | 2,596 | 59,722 |
| Wilhelmina..... | | | 2.1 | 3.1 | 3.5 | 5.8 | 29,560 | 56,307 |
| Golden..... | | | | (*) | .1 | 3.8 | 911 | 36,774 |
| Hybrid 128..... | 9.6 | 29.4 | 12.6 | 9.4 | 1.8 | 3.6 | 15,121 | 35,393 |
| Hymar..... | | | | | .1 | 3.5 | 785 | 34,614 |
| White Winter..... | 4.7 | 3.2 | 2.4 | 1.8 | 2.7 | 3.3 | 22,177 | 32,093 |
| Baart..... | 3.7 | .8 | 1.3 | 1.5 | 2.3 | 1.8 | 18,971 | 17,388 |
| White Federation..... | | | | | 1.0 | 1.6 | 8,793 | 15,834 |
| Oregon Zimmerman..... | | | .3 | 1.7 | 2.1 | 1.2 | 17,402 | 11,915 |
| Hard Federation..... | | 1.1 | 3.3 | .7 | | .9 | | 8,618 |
| Galgalos..... | 1.5 | 1.4 | .6 | .5 | .7 | .8 | 5,662 | 7,691 |
| Jenkin..... | .4 | 2.0 | 2.0 | 2.2 | .7 | .7 | 6,086 | 6,512 |
| Redchaff..... | 2.0 | .2 | .6 | .5 | .4 | .2 | 3,744 | 2,259 |
| Rink..... | 1.3 | 2.2 | 2.8 | .9 | .6 | .2 | 5,007 | 1,614 |
| Pacific Bluestem..... | 11.3 | 3.2 | 1.4 | .9 | .7 | .1 | 5,726 | 987 |
| Ramona..... | | | | | | (*) | | 389 |
| Hybrid 63..... | 1.6 | .7 | | .7 | .3 | (*) | 2,876 | 341 |
| Athena..... | | | | | .1 | (*) | 705 | 316 |
| Defiance..... | 1.7 | .6 | .2 | .4 | .1 | (*) | 1,068 | 84 |
| Lemhi..... | | | | | | (*) | | 76 |
| Hard Federation 31..... | | | | .5 | 1.1 | | 8,981 | |
| Albit..... | | | | 4.3 | .5 | | 4,461 | |
| Hybrid 143..... | | .1 | | .5 | .1 | | 1,089 | |
| Dicklow..... | | .2 | .1 | (*) | .1 | | 1,071 | |
| Union..... | | | | | .1 | | 974 | |
| Hood..... | | | | .2 | .1 | | 906 | |
| Bluechaff..... | (*) | .2 | .1 | (*) | .1 | | 810 | |
| Pilcrow..... | | | | | .1 | | 687 | |
| Sonora..... | 1.2 | .2 | .5 | (*) | .1 | | 408 | |
| Arco..... | | | | 1.0 | (*) | | 98 | |
| Hard red winter..... | | | 25.0 | 22.1 | 15.5 | 12.0 | 129,600 | 117,479 |
| Turkey..... | 13.2 | 26.0 | 24.6 | 20.0 | 14.2 | 10.7 | 118,902 | 104,243 |
| Rio..... | | | | .1 | .3 | 1.1 | 2,087 | 10,667 |
| Mosida..... | | | (*) | .5 | .3 | .3 | 2,103 | 2,569 |
| Oro..... | | | .1 | .3 | .4 | | 3,685 | |
| Ridit..... | | | .2 | 1.1 | .1 | | 632 | |
| Hard red spring..... | | | 2.9 | 3.4 | 4.1 | 1.0 | 34,287 | 9,814 |
| Huston..... | 2.1 | 2.9 | .6 | 1.5 | 1.5 | .5 | 12,456 | 5,106 |
| Marquis..... | 2.2 | 1.7 | 1.3 | 1.0 | 2.3 | .3 | 19,492 | 2,976 |
| Kinney..... | 2.2 | 1.0 | .9 | .8 | | .2 | | 1,732 |
| Thatcher..... | | | | | .1 | | 358 | |
| Red Bobs..... | | | | | (*) | | 96 | |
| Soft red winter..... | | | .8 | 3.1 | .4 | .2 | 3,786 | 1,751 |
| Red Russian..... | .7 | 1.3 | .3 | .2 | .3 | .1 | 2,423 | 1,411 |
| Triplet..... | | .1 | .4 | 2.5 | .1 | (*) | 1,173 | 340 |
| Others and not reported | 26.2 | 9.4 | 4.8 | 3.5 | 2.2 | | 18,520 | |
| Total..... | | | | | | | 838,000 | 976,000 |
| Pennsylvania: | | | | | | | (201) | (758) |
| Soft red winter..... | | | 99.2 | 99.9 | 99.6 | 97.9 | 950,405 | 919,879 |
| Nittany..... | | 22.9 | 32.9 | 34.3 | 41.9 | 35.2 | 399,491 | 330,604 |
| Leap..... | 1.8 | 19.7 | 25.5 | 26.4 | 25.1 | 20.8 | 239,841 | 195,254 |
| Thorne..... | | | | | | | 19.7 | 184,830 |
| Forward..... | | .2 | 11.7 | 16.5 | 19.0 | 14.7 | 181,655 | 137,978 |
| Fulcaster..... | 23.4 | 18.2 | 8.2 | 8.6 | 3.4 | 2.7 | 32,021 | 25,413 |
| Fultz..... | 16.5 | 7.3 | 2.1 | 1.9 | .7 | 1.0 | 6,338 | 8,981 |
| Red Wave..... | 7.5 | 4.2 | 1.3 | 1.0 | 1.1 | .8 | 10,201 | 7,214 |
| Rudy..... | 3.7 | 2.2 | 1.8 | .3 | .1 | .5 | 1,089 | 4,414 |
| Poole..... | 6.4 | 2.6 | .5 | .7 | 1.3 | .4 | 11,983 | 3,768 |
| Nured..... | | | | | | .3 | | 3,195 |
| Grandprize..... | 1.0 | .2 | .1 | .3 | (*) | .3 | 242 | 2,635 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|----------------------------------|------------|------|-------|-------|-------|-----------|----------------|----------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Pennsylvania—Continued | | | | | | | | |
| Soft red winter—Continued | | | | | | | | |
| Fulhio | | (*) | 0.1 | 0.3 | 0.6 | 0.2 | 6,104 | 2,052 |
| Trumbull | | 0.1 | .3 | .3 | (*) | .2 | 348 | 1,827 |
| Red Rock | | .9 | .5 | .7 | 2.4 | .2 | 23,341 | 1,824 |
| Valprize | | | | | | .1 | | 1,038 |
| Gladden | | | | | | .1 | | 588 |
| Mealy | 1.3 | .3 | .1 | .2 | .1 | (*) | 676 | 386 |
| Goens | (*) | | | (*) | | (*) | | 252 |
| Fairfield | | | | | | (*) | | 221 |
| Mediterranean | 9.3 | 2.0 | .8 | 1.4 | .6 | (*) | 6,174 | 215 |
| Leapland | | | | | | (*) | | 214 |
| Russian Red | | | | | | (*) | | 184 |
| Red Clawson | .3 | | .1 | | .3 | (*) | 2,429 | 94 |
| Diehl-Mediterranean | 1.4 | .6 | | (*) | .1 | | 947 | |
| White | | | .6 | .1 | .1 | 1.8 | 462 | 16,959 |
| Yorkwin | | | | | .1 | 1.8 | 435 | 16,830 |
| Hard red winter | | | .1 | (*) | .3 | .3 | 2,722 | 3,153 |
| Purkof | | | (*) | .1 | .3 | .3 | 2,685 | 3,041 |
| Turkey | | | | | | (*) | | 77 |
| Hard red spring | | | .1 | (*) | (*) | (*) | 411 | 9 |
| Marquis | .2 | (*) | .1 | (*) | (*) | (*) | 390 | 9 |
| Others and not reported | 27.2 | 18.6 | 13.9 | 7.0 | 2.9 | .7 | 27,610 | 6,962 |
| Total | | | | | | | 954,000 | 940,000 |
| South Carolina: | | | | | | | | |
| Soft red winter | | | | | | | | |
| Redhart | | | 100.0 | 100.0 | 100.0 | 100.0 | (214) | (143) |
| Purplestraw | | | | 32.5 | 47.5 | 49.8 | 216,000 | 290,000 |
| Flint | 38.1 | 33.1 | 37.3 | 34.4 | 29.1 | 26.8 | 102,791 | 144,494 |
| Hardred | 8.5 | 19.3 | 9.5 | 24.1 | 18.7 | 14.8 | 62,870 | 77,666 |
| Leap | | | | | | 7.8 | 40,332 | 42,957 |
| Fulcaster | 15.3 | 5.0 | 4.1 | 2.8 | 1.3 | .3 | 22,751 | 2,730 |
| Sanett | 3.6 | 9.1 | 7.3 | 1.9 | .7 | .3 | 838 | 1,467 |
| Forward | | | | .6 | .3 | | 482 | 614 |
| Gasta | | | | | .1 | | 148 | |
| Others and not reported | 34.5 | 33.5 | 41.8 | 3.7 | 2.3 | | 5,048 | |
| Total | | | | | | | 216,000 | 290,000 |
| South Dakota: | | | | | | | | |
| Hard red spring | | | | | | | | |
| Rival | | | 55.7 | 72.7 | 71.6 | 84.7 | (563) | (534) |
| Ceres | | | | | (*) | 2,152,039 | 2,755,342 | 2,755,342 |
| Thatcher | | | .4 | 25.2 | 33.5 | 20.1 | 1,014,100 | 1,014,100 |
| Pilot | | | | | 24.5 | 14.0 | 1,005,947 | 653,914 |
| Marquis | 61.2 | 47.1 | 47.1 | 43.0 | 8.4 | 3.0 | 736,383 | 455,110 |
| Reward | | | .1 | 2.5 | 3.1 | 2.3 | 29 | 305,196 |
| Regent | | | | | | 1.6 | 253,272 | 96,188 |
| Komar | | | | .2 | .6 | .9 | 92,040 | 73,613 |
| Renown | | | | | (*) | .6 | 51,825 | 29,261 |
| Carleeds | | | | | .1 | .5 | 1,180 | 21,688 |
| Marvel | | | .1 | (*) | .3 | .5 | 1,944 | 15,477 |
| Vesta | | | | | | .3 | 7,849 | 15,380 |
| Kota | | 1.5 | 4.5 | .6 | (*) | .1 | 11,675 | 11,675 |
| Great Northern | | | | | | .1 | 1,004 | 3,272 |
| Marquillo | | | (*) | (*) | .4 | (*) | .1 | 3,015 |
| Hope | | | .1 | .1 | .1 | (*) | 11,282 | 1,503 |
| Preston | 10.3 | 2.0 | 1.1 | .3 | (*) | (*) | 2,892 | 795 |
| Apex | | | | | | (*) | 1,373 | 423 |
| Premier | | | | | | (*) | | 232 |
| Mida | | | | | | (*) | | 75 |
| Ladoga | | | | | .2 | (*) | | 68 |
| Red Fife | .9 | .1 | .1 | (*) | .1 | | 6,351 | |
| Ruby | | 1.1 | 1.1 | .3 | (*) | | 1,949 | |
| Garnet | | | (*) | (*) | (*) | | 1,188 | |
| Hard red winter | | | 2.3 | 5.7 | 5.3 | 6.2 | 24 | 24 |
| Turkey | 1.5 | 2.3 | 1.9 | 4.9 | 4.6 | 4.0 | 158,438 | 203,235 |
| Cheyenne | | | | | (*) | 1.4 | 138,288 | 129,664 |
| Kanred | | 1.2 | .4 | .8 | .3 | .7 | 646 | 47,079 |
| Iowin | | | | | .2 | .1 | 7,978 | 21,408 |
| Nebred | | | | | | (*) | 6,277 | 4,055 |
| Nebraska No. 60 | | | | (*) | .2 | | | 942 |
| | | | | | | | 4,960 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------------|------------|------|-------|-------|-------|-------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| South Dakota—Continued | | | | | | | | |
| Durum..... | | | 41.3 | 19.0 | 18.9 | 7.9 | 567,485 | 257,341 |
| Durum (varieties not reported)..... | 16.8 | 33.8 | 21.7 | 5.8 | 7.3 | 3.8 | 219,261 | 123,843 |
| Peliss..... | | | .1 | .6 | .4 | 2.4 | 11,085 | 77,022 |
| Pentad..... | .3 | 3.7 | 15.4 | 4.4 | 8.6 | 1.3 | 258,240 | 41,801 |
| Mindum..... | | | .1 | 1.4 | 1.1 | .3 | 34,457 | 9,480 |
| Kubanka..... | .6 | 1.5 | 1.0 | 2.6 | .3 | .1 | 10,640 | 3,458 |
| Acme..... | | 2.3 | 1.4 | 3.1 | .1 | (*) | 1,874 | 1,350 |
| Arnautka..... | | .8 | .1 | .3 | | (*) | | 136 |
| Golden Ball..... | | | | | .8 | | 25,633 | |
| Nodak..... | | | .1 | .5 | .1 | | 2,497 | |
| Monad..... | | .8 | 1.3 | .3 | (*) | | 1,414 | |
| White..... | | | .7 | 2.6 | 4.2 | 1.2 | 128,038 | 105,559 |
| Florence..... | | .1 | .7 | 2.6 | 4.3 | 1.2 | 127,793 | 39,082 |
| Others and not reported..... | 8.4 | 1.7 | 1.2 | .5 | .4 | .1 | 11,041 | 2,890 |
| Total..... | | | | | | | 3,006,000 | 3,255,000 |
| Tennessee: | | | | | | | | |
| Soft red winter..... | | | 100.0 | 100.0 | 100.0 | 100.0 | (219) | (193) |
| Fulcaster..... | 40.5 | 43.0 | 40.1 | 44.7 | 43.0 | 34.0 | 388,000 | 491,000 |
| Currell..... | 4.3 | 2.9 | 8.0 | 6.7 | 13.6 | 16.2 | 166,777 | 166,926 |
| Flint..... | .1 | 1.8 | .9 | 8.2 | 5.4 | 10.4 | 52,865 | 79,766 |
| Fultz..... | 14.0 | 10.8 | 16.8 | 14.6 | 12.8 | 9.7 | 20,773 | 51,157 |
| Forward..... | | | | 5.1 | 6.1 | 5.7 | 49,790 | 47,446 |
| Purplestraw..... | 1.0 | .1 | 2.1 | .2 | 1.5 | 3.5 | 23,732 | 28,146 |
| Mediterranean..... | 3.4 | 7.1 | 8.0 | 4.6 | 1.9 | 3.5 | 5,965 | 17,182 |
| Poole..... | 5.4 | 2.2 | 3.0 | 5.5 | 4.7 | 3.5 | 7,134 | 17,045 |
| Redhart..... | | | | | | 2.0 | 18,214 | 17,024 |
| Rice..... | 2.2 | 9.0 | .3 | 1.0 | .3 | 1.6 | 9,915 | 8,083 |
| Leap..... | 3.5 | 3.6 | 2.6 | 1.6 | .7 | .9 | 955 | 8,033 |
| V. P. I. 131..... | | | .8 | .1 | | .7 | 2,780 | 4,390 |
| China..... | | | | | | .5 | 3,430 | 2,560 |
| Nittany..... | | | .1 | .1 | .7 | .4 | 2,685 | 1,797 |
| Grandprize..... | | | | | 1.8 | .4 | 7,029 | 1,778 |
| Jones Fife..... | | .3 | .1 | 2.2 | .3 | .3 | 1,306 | 1,674 |
| Diehl-Mediterranean..... | .7 | 1.2 | 1.3 | .1 | .3 | .2 | 1,308 | 840 |
| Red May..... | | | | | | .1 | | 386 |
| Sanford..... | | | | | | .1 | | 280 |
| Thorne..... | | | | | | .1 | | 266 |
| Rudy..... | | | | | | (*) | | 194 |
| Hardired..... | | | | | | (*) | | 105 |
| Red Rock..... | | | | | .3 | | 1,200 | |
| Red Wave..... | .2 | .1 | .1 | .1 | (*) | | 82 | |
| Others and not reported..... | 24.7 | 17.9 | 14.8 | 5.2 | 6.6 | 6.2 | 25,405 | 30,610 |
| Total..... | | | | | | | 388,000 | 491,000 |
| Texas: | | | | | | | | |
| Hard red winter..... | | | 85.1 | 92.0 | 92.5 | 93.7 | (262) | (225) |
| Tenmarq..... | | | | .2 | 6.7 | 30.9 | 3,624,106 | 4,168,724 |
| Blackhull..... | | (*) | 13.2 | 22.9 | 40.8 | 22.7 | 261,538 | 1,375,971 |
| Turkey..... | 33.9 | 43.5 | 51.4 | 51.6 | 37.7 | 21.6 | 1,597,707 | 1,007,214 |
| Kanred..... | | 31.4 | 19.8 | 16.1 | 6.0 | 6.9 | 1,476,914 | 961,772 |
| Chiefkan..... | | | | | .4 | 5.7 | 235,328 | 308,935 |
| Early Blackhull..... | | | | | .5 | 2.9 | 15,066 | 254,041 |
| Cheyenne..... | | | | | (*) | 1.5 | 20,303 | 130,789 |
| Red Chief..... | | | | | | 1.1 | 354 | 67,861 |
| Comanche..... | | | | | | .3 | | 49,507 |
| Triumph..... | | | | | | (*) | | 12,413 |
| Alton..... | | | | | (*) | | | 221 |
| Soft red winter..... | | | 11.8 | 7.1 | 6.8 | 5.9 | 366 | |
| Mediterranean..... | 55.5 | 14.9 | 9.8 | 5.3 | 5.4 | 4.5 | 267,047 | 262,926 |
| Red May..... | .3 | .2 | .1 | .1 | .1 | .7 | 211,050 | 198,598 |
| Denton..... | | | .5 | 1.2 | .9 | .6 | 4,144 | 29,002 |
| Austin..... | | | | | | .1 | 33,648 | 24,456 |
| Fulcaster..... | 1.8 | 1.7 | .5 | .3 | .3 | .1 | .1 | 6,050 |
| Fairfield..... | | | | | | (*) | 9,966 | 4,462 |
| Fultz..... | .9 | .2 | .1 | .1 | .2 | | | 358 |
| Durum and red durum..... | | | 1.7 | .7 | .7 | .4 | 7,259 | |
| Durum (varieties not reported)..... | 1.1 | 1.4 | 1.4 | .5 | .6 | .4 | 27,665 | 17,975 |
| Arnautka..... | .6 | .2 | .3 | .2 | (*) | (*) | 24,322 | 17,350 |
| Pentad..... | | | | | (*) | | 1,934 | 625 |
| Kubanka..... | (*) | .1 | | (*) | (*) | | 694 | |
| Mindum..... | | | | .1 | (*) | | 409 | |
| | | | | | (*) | | 223 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------|------------|------|-------|-------|-------|-------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Texas—Continued | | | | | | | | |
| White | | | (*) | 0.1 | (*) | (*) | 122 | 375 |
| Florence | | | | | (*) | (*) | 122 | 375 |
| Hard red spring | | | 1.4 | .1 | (*) | | 60 | |
| Marquis | 0.1 | 1.0 | 1.2 | .1 | (*) | | 60 | |
| Others and not reported | 5.8 | 5.4 | 1.7 | 1.3 | 0.4 | | 17,593 | |
| Total | | | | | | | 3,919,000 | 4,450,000 |
| Utah: | | | | | | | | |
| Hard red winter | | | 53.7 | 54.8 | 64.2 | 54.0 | 168,792 | 157,647 |
| Turkey | 31.0 | 46.3 | 38.5 | 38.5 | 15.2 | 31.9 | 39,937 | 93,095 |
| Utah Kanred | | | 7.9 | 13.1 | 15.8 | 7.3 | 41,497 | 21,273 |
| Mosida | | | | | | 6.8 | | 19,783 |
| Relief | | | | (*) | 30.8 | 4.8 | 80,992 | 14,103 |
| Cache | | | | | | 2.9 | | 8,611 |
| Wasatch | | | | | | .3 | | 782 |
| White | | | 41.7 | 42.0 | 35.5 | 44.5 | 93,262 | 130,018 |
| Federation | | (*) | 6.9 | 12.8 | 13.9 | 18.2 | 36,610 | 53,193 |
| Dicklow | 1.3 | 13.8 | 18.4 | 16.1 | 10.7 | 9.5 | 28,226 | 27,842 |
| Baart | | 1.0 | 1.8 | 3.1 | 3.1 | 7.1 | 8,244 | 20,777 |
| Silvercoin | .6 | .7 | 2.1 | .6 | | 2.5 | | 7,215 |
| Sonora | 3.0 | 2.1 | .8 | .9 | .5 | 2.4 | 1,353 | 6,914 |
| Utac | | | .2 | .3 | 1.2 | 1.4 | 3,222 | 4,291 |
| Ruby | | | .8 | .3 | .4 | 1.0 | 938 | 2,886 |
| Club (varieties not reported) | 9.1 | 4.3 | 3.3 | 1.8 | 2.1 | .5 | 5,488 | 1,569 |
| Kofod | 2.9 | 2.9 | 1.0 | .5 | | .5 | | 1,443 |
| Pacific Bluestem | 4.4 | 4.0 | 1.2 | 1.4 | | .5 | | 1,386 |
| Touse | 6.9 | 3.1 | 1.8 | 1.2 | .2 | .4 | 440 | 1,073 |
| Sevier | .3 | 1.1 | 1.1 | .1 | (*) | .3 | 50 | 875 |
| Lemhi | | | | | | .1 | | 370 |
| Goldcoin | 8.5 | 2.6 | .8 | 1.1 | .3 | .1 | 752 | 184 |
| Erect | | | | | 1.9 | | 4,971 | |
| Surprise | 8.7 | .6 | .1 | 1.5 | .2 | | 675 | |
| Soft red winter | | | 1.6 | 1.6 | | 1.4 | | 4,143 |
| Lofthouse | 1.1 | .3 | 1.0 | .4 | | 1.1 | | 3,266 |
| Squareheads Master | | | | | | .2 | | 555 |
| Odessa | 3.2 | 1.3 | .1 | .8 | | .1 | | 322 |
| Hard red spring | | | 2.0 | 1.6 | .3 | .1 | 946 | 192 |
| Marquis | 5.8 | 2.9 | 1.1 | 1.2 | | .1 | | 192 |
| Others and not reported | 13.2 | 13.0 | 11.1 | 5.3 | 3.7 | | 9,605 | |
| Total | | | | | | | 263,000 | 292,000 |
| Virginia: | | | | | | | | |
| Soft red winter | | | 100.0 | 100.0 | 100.0 | 100.0 | (247) | (464) |
| Fulcaster | 38.1 | 54.5 | 38.0 | 38.6 | 30.5 | 21.6 | 542,000 | 574,000 |
| Redhart | | | | .1 | .7 | 20.0 | 165,305 | 124,002 |
| Leap | 22.8 | 17.1 | 18.8 | 18.6 | 21.0 | 19.2 | 3,710 | 114,342 |
| V. P. I. 131 | | | 11.6 | 16.7 | 17.5 | 16.3 | 113,517 | 110,090 |
| Flint | 4.2 | 5.0 | 5.8 | 8.0 | 8.0 | 6.7 | 94,701 | 93,455 |
| Forward | | | .7 | 2.3 | 7.8 | 4.4 | 43,460 | 38,412 |
| Purplestraw | .3 | 1.1 | 1.8 | 4.1 | 3.2 | 2.5 | 42,384 | 24,990 |
| Fultz | 10.5 | 6.5 | 2.3 | 2.9 | 3.6 | 1.6 | 17,517 | 14,394 |
| Poole | .5 | .4 | .1 | | .6 | 1.2 | 19,423 | 9,427 |
| Leapland | | | | | .1 | 1.0 | 3,390 | 6,705 |
| Nittany | | | .8 | 1.4 | 1.1 | .9 | 679 | 5,774 |
| V. P. I. 112 | | | 4.7 | 1.9 | 1.7 | .7 | 5,826 | 5,025 |
| Hardired | | | | | | .3 | 9,409 | 4,201 |
| Red Rock | | | | | | .1 | | 1,956 |
| Trumbull | | | | | | .1 | | 729 |
| Red Wave | 1.2 | (*) | 1.3 | .7 | .6 | .1 | | 512 |
| Mediterranean | 6.2 | 4.0 | .9 | .5 | .3 | (*) | 3,277 | 377 |
| Thorne | | | | | | (*) | 1,423 | 230 |
| Fultz-Mediterranean | .6 | 1.1 | .7 | .4 | .2 | (*) | | 133 |
| Diehl-Mediterranean | .1 | | (*) | | .7 | | 1,154 | 91 |
| Currell | 1.6 | 1.7 | 1.4 | .2 | .2 | | 3,929 | |
| Others and not reported | 13.9 | 8.6 | 11.1 | 3.6 | 2.2 | 3.3 | 887 | |
| Total | | | | | | | 12,009 | 19,155 |
| Total | | | | | | | 542,000 | 574,000 |
| Washington: | | | | | | | | |
| White | | | 64.0 | 65.4 | 63.1 | 70.0 | (282) | (309) |
| Baart | 12.3 | 14.6 | 20.0 | 26.0 | 28.7 | 26.4 | 1,224,697 | 1,774,59 |
| Federation | | .1 | 9.9 | 9.8 | 8.1 | 15.6 | 556,925 | 668,360 |
| Goldcoin | 9.0 | 5.9 | 7.0 | 3.7 | 2.7 | 6.6 | 156,206 | 394,999 |
| | | | | | | | 51,755 | 167,921 |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------|------------|------|------|-------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Washington—Continued | | | | | | | | |
| White—Continued | | | | | | | | |
| Hymar | | | | | 6.1 | 6.0 | 118,648 | 153,319 |
| Golden | | | | | 1.5 | 4.6 | 28,597 | 115,800 |
| Rex | | | | | 4.3 | 3.9 | 84,158 | 99,623 |
| Hybrid 128 | 7.4 | 9.2 | 8.5 | 3.3 | 1.6 | 2.7 | 30,753 | 69,939 |
| Pacific Bluestem | 24.9 | 13.0 | 9.0 | 5.0 | 3.8 | 1.3 | 73,362 | 33,456 |
| Albit | | | 3.3 | 14.6 | 3.2 | 1.0 | 62,267 | 24,085 |
| Pilcrow | | | .6 | 1.1 | 1.2 | .6 | 23,170 | 14,600 |
| White Federation | | | | | (*) | .3 | 309 | 6,996 |
| Major | | | | (*) | .3 | .2 | 5,355 | 6,018 |
| Jenkin | 1.6 | 3.5 | 1.5 | .7 | .1 | .2 | 2,586 | 5,224 |
| Requa | | | | | .1 | .2 | 991 | 4,424 |
| Idaed | | | | | | .1 | | 3,446 |
| Alicel | | | | | | .1 | | 2,921 |
| Little Club | .8 | (*) | .2 | .1 | | .1 | | 1,301 |
| Orfed | | | | | | (*) | | 618 |
| Oregon Zimmerman | | | | | | (*) | | 551 |
| Wilhelmina | | | | (*) | .2 | (*) | 3,793 | 475 |
| Big Club | .1 | (*) | (*) | .1 | | (*) | | 456 |
| Club (varieties not reported) | 4.5 | 2.4 | 1.3 | .1 | .1 | (*) | 1,999 | 59 |
| Currawa | | | | .3 | .3 | | 6,258 | |
| Eickmeyer | | | | | .3 | | 5,244 | |
| Allen | .5 | .2 | | (*) | (*) | | | 631 |
| White Winter | | .1 | (*) | .1 | (*) | | | 393 |
| Onas | | | (*) | | (*) | | | 374 |
| Athena | | | | | (*) | | | 374 |
| Surprise | (*) | | .5 | .1 | (*) | | | 316 |
| Dicklow | | (*) | .3 | .1 | (*) | | | 253 |
| Flomar | | | | | (*) | | | 65 |
| Hard Federation | | (*) | .4 | .1 | (*) | | | 43 |
| Hard red winter | | | 21.4 | 26.3 | 29.9 | 26.6 | 581,447 | 675,709 |
| Turkey | 7.6 | 24.5 | 15.6 | 20.2 | 21.4 | 24.3 | 415,892 | 614,798 |
| Rio | | | | | .8 | .8 | 16,274 | 19,312 |
| Yogo | | | | | .7 | .6 | 13,823 | 15,968 |
| Oro | | | | | 2.2 | .4 | 42,509 | 10,018 |
| Ridit | | (*) | 5.6 | 5.8 | 4.2 | .3 | 80,931 | 8,599 |
| Mosida | | | | .1 | .3 | .1 | 6,059 | 3,580 |
| Blackhull | | | | | | .1 | | 2,962 |
| Kanred | | | | .3 | .1 | (*) | 2,145 | 472 |
| Tenmarq | | | | | (*) | | 34 | |
| Soft red winter | | | 11.5 | 6.6 | 5.7 | 2.8 | 110,134 | 70,860 |
| Triplet | | 4.7 | 6.6 | 5.1 | 4.4 | 1.5 | 85,025 | 36,806 |
| Red Russian | 4.3 | 1.6 | 1.1 | .3 | .3 | .6 | 5,167 | 15,768 |
| Jones Fife | 8.7 | 7.6 | 2.4 | 1.1 | .7 | .4 | 13,694 | 10,216 |
| Hybrid 123 | 1.1 | 2.9 | 1.1 | .1 | .2 | .3 | 4,322 | 6,431 |
| Squareheads Master | | | | (*) | (*) | .1 | 643 | 1,639 |
| Hard red spring | | | 3.1 | 1.7 | 1.3 | .6 | 26,722 | 15,840 |
| Marquis | 9.3 | 3.3 | 2.6 | 1.6 | 1.3 | .4 | 25,353 | 12,088 |
| Red Bobs | | | .2 | (*) | (*) | .1 | 658 | 1,591 |
| Thatcher | | | | | (*) | .1 | 411 | 1,272 |
| Komar | | | | | | (*) | | 846 |
| Garnet | | | | | | (*) | | 43 |
| Others and not reported | 7.9 | 6.4 | 2.3 | .2 | .8 | | 15,235 | |
| Total | | | | | | | 1,943,000 | 2,537,000 |
| West Virginia: | | | | | | | (134) | (158) |
| Soft red winter | | | 99.4 | 100.0 | 99.9 | 99.8 | 156,829 | 112,744 |
| Fulcaster | 29.1 | 36.2 | 50.6 | 41.8 | 24.5 | 37.4 | 38,391 | 42,220 |
| Leap | 3.1 | 7.0 | 15.9 | 16.7 | 28.8 | 36.5 | 45,155 | 41,212 |
| Thorne | | | | | | 6.0 | | 6,779 |
| Forward | | | | .4 | 1.5 | 3.5 | 2,335 | 3,934 |
| Fultz | 16.1 | 8.3 | 8.6 | 15.6 | 16.5 | 3.0 | 25,983 | 3,363 |
| Trumbull | | .2 | 3.6 | 4.8 | 3.3 | 3.0 | 5,182 | 3,352 |
| Nittany | | (*) | .4 | 4.0 | 4.4 | 2.2 | 6,868 | 2,532 |
| Leapland | | | | | | 2.2 | | 2,474 |
| Fulbio | | .1 | (*) | .4 | 3.5 | 1.4 | 5,448 | 1,640 |
| Red Wave | | 5.4 | .8 | 3.0 | 2.2 | 1.4 | 3,532 | 1,597 |
| Nigger | (*) | | .2 | .4 | .2 | 1.0 | 261 | 1,156 |
| Poole | 13.1 | 7.4 | 6.8 | 7.3 | 5.1 | 1.0 | 7,976 | 1,151 |
| Mediterranean | 10.5 | 4.0 | 5.6 | .9 | 2.8 | .4 | 4,501 | 480 |
| Redhart | | | | | | .4 | | 392 |
| Purplestraw | | | | | | .3 | | 293 |
| Rice | .3 | .9 | .8 | 1.0 | 1.0 | .1 | 1,524 | 169 |
| Canawa | | | | | 1.7 | | 2,628 | |

TABLE 1.—Estimated percentage of the total wheat area occupied by the classes and varieties of wheat grown in each State at 5-year intervals since 1919, and the acreage in 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|--------------------------------|------------|------|------|------|------|------|---------|---------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| West Virginia—Continued | | | | | | | | |
| Soft red winter—Continued | | | | | | | | |
| V. P. I. 131 | | | (*) | 0.5 | 0.6 | | 1,004 | |
| Red Clawson | | | | | .1 | | 239 | |
| White | | | | | .1 | 0.2 | 171 | 256 |
| Dawson | | | | | .1 | .2 | 166 | 256 |
| Others and not reported | 21.8 | 30.5 | 6.7 | 3.2 | 3.7 | | 5,807 | |
| Total | | | | | | | 157,000 | 113,000 |
| Wisconsin: | | | | | | | (169) | (115) |
| Hard red winter | | | | | | | | |
| Turkey | 7.5 | 34.0 | 13.3 | 11.1 | 27.4 | 33.6 | 38,923 | 36,669 |
| Ashkof | | | 1.5 | 1.3 | 11.6 | 11.7 | 25,501 | 23,181 |
| Minturki | | .1 | .6 | .7 | 1.9 | 4.2 | 10,785 | 8,106 |
| Marmin | | | | | | 1.8 | 1,774 | 1,212 |
| Wisconsin Pedigree No. 2 | 1.3 | 2.7 | 3.9 | 1.1 | | 1.3 | | 924 |
| Chequamegon | | | | | | .5 | | 379 |
| Iobred | | | | | .2 | | 183 | |
| Hard red spring | | | 65.6 | 82.3 | 57.3 | 44.1 | 53,319 | 30,437 |
| Progress | | .3 | 25.9 | 53.7 | 33.2 | 24.5 | 30,901 | 16,878 |
| Thatcher | | | | | 6.4 | 7.6 | 5,966 | 5,260 |
| Sturgeon | | | | (*) | 5.8 | 7.4 | 5,338 | 5,090 |
| Marquis | 59.2 | 34.1 | 33.1 | 23.7 | 9.1 | 4.1 | 8,470 | 2,827 |
| Rival | | | | | | .3 | | 203 |
| Regent | | | | | | .2 | | 130 |
| Henry | | | | | | .1 | | 42 |
| Hope | | | | .3 | .1 | (*) | 60 | 5 |
| Preston | 5.1 | 4.0 | | 2.2 | 1.3 | (*) | 1,196 | 2 |
| Java | | | | | .3 | | 280 | |
| Ruby | | | | .1 | .2 | | 143 | |
| Marquillo | | | | .1 | .1 | | 103 | |
| Soft red winter | | | 8.5 | .9 | | 2.7 | | 1,860 |
| Fultz | .4 | .6 | 2.6 | .3 | | 1.9 | | 1,316 |
| Red May | .7 | 3.2 | 5.4 | .4 | | .6 | | 400 |
| Fultz-Mediterranean | | | | | | .2 | | 144 |
| Durum and red durum | | | 3.0 | 2.0 | .8 | .1 | 758 | 34 |
| Durum (varieties not reported) | 2.3 | 1.6 | 2.9 | 2.0 | .7 | (*) | 611 | 34 |
| Pentad | | | | (*) | .1 | | 135 | |
| Others and not reported | 23.5 | 19.4 | 10.9 | 3.0 | 1.6 | | 1,534 | |
| Total | | | | | | | 93,000 | 69,000 |
| Wyoming: | | | | | | | (114) | (69) |
| Hard red winter | | | | | | | | |
| Turkey | 15.7 | 9.8 | 28.2 | 38.1 | 26.6 | 39.7 | 156,973 | 164,402 |
| Cheyenne | | | | | 2.9 | 13.2 | 99,942 | 104,090 |
| Kanred | | 2.4 | 11.7 | 12.6 | 10.6 | 9.5 | 10,745 | 34,446 |
| Nebraska No. 60 | | | | | 1.7 | .4 | 39,639 | 24,886 |
| Tenmarq | | | | | (*) | | 6,408 | 980 |
| Hard red spring | | | 45.6 | 36.9 | 50.4 | 33.4 | 189,629 | 87,387 |
| Marquis | 34.5 | 65.2 | 42.5 | 33.0 | 38.9 | 15.2 | 146,268 | 39,935 |
| Ceres | | | (*) | 2.8 | 9.8 | 13.3 | 36,896 | 34,712 |
| Supreme | | | | | | 3.3 | 8,729 | |
| Thatcher | | | | | .2 | 1.0 | 883 | 2,566 |
| Ruby | | | | | (*) | .3 | 81 | 895 |
| Dixon | | .8 | .1 | | .2 | .2 | 655 | 550 |
| Komar | | | | | 1.1 | | 4,323 | |
| Preston | .7 | | .2 | | .1 | | 355 | |
| Durum | | | 13.3 | 10.7 | 6.1 | 2.5 | 22,854 | 6,526 |
| Durum (varieties not reported) | 24.0 | 10.7 | 6.8 | 5.3 | 2.7 | 1.7 | 10,268 | 4,411 |
| Pentad | | .4 | 3.5 | 4.3 | 3.2 | .8 | 11,873 | 2,057 |
| Kubanka | | 1.5 | | .4 | | (*) | | 58 |
| Acme | | 3.2 | 3.0 | .6 | .2 | | 691 | |
| White | | | .9 | 1.5 | 1.7 | 1.2 | 6,438 | 3,087 |
| Baart | | .2 | .3 | .4 | .5 | 1.2 | 1,744 | 3,087 |
| Dicklow | .4 | .1 | .2 | .4 | .9 | | 3,237 | |
| Federation | | | .2 | .2 | .3 | | 1,254 | |
| Touse | .1 | | (*) | (*) | (*) | | 63 | |
| Goldcoin | | | | | (*) | | 55 | |
| Pacific Bluestem | | | | | (*) | | 55 | |
| Soft red winter | | | .1 | .2 | (*) | .2 | 106 | 598 |
| Baldrock | | | | | (*) | .2 | | 487 |
| Odessa | .1 | .5 | .1 | .2 | (*) | (*) | 106 | 111 |
| Others and not reported | 24.5 | 5.2 | 3.2 | 1.6 | .1 | | 333 | |
| Total | | | | | | | 376,000 | 262,000 |

The percentage in 1944 of each of the three leading varieties in each State, arranged by geographical divisions, is shown in table 2.

TABLE 2.—Summary of percentage of the 3 most widely grown varieties of wheat in each State in 1944

| Division and State | First | | Second | | Third | |
|------------------------|--------------------------|---------------------|------------------|---------------------|--------------------|---------------------|
| | Variety | Percentage of total | Variety | Percentage of total | Variety | Percentage of total |
| North Atlantic: | | | | | | |
| Maine..... | Marquis..... | 50.1 | Red Fife..... | 22.2 | Garnet..... | 11.8 |
| New York..... | Yorkwin..... | 86.7 | Nured..... | 4.4 | Goldcoin..... | 2.2 |
| New Jersey..... | Leap..... | 77.7 | Thorne..... | 12.0 | Nittany..... | 4.1 |
| Pennsylvania..... | Nittany..... | 35.2 | Leap..... | 20.8 | Thorne..... | 19.7 |
| North Central: | | | | | | |
| Ohio..... | Thorne..... | 56.0 | Trumbull..... | 20.8 | Fulhio..... | 6.6 |
| Indiana..... | Fultz..... | 26.4 | Rudy..... | 13.4 | Trumbull..... | 11.1 |
| Illinois..... | do..... | 19.2 | Fulhio..... | 16.8 | Turkey..... | 11.3 |
| Michigan..... | Dawson..... | 46.3 | Red Rock..... | 14.4 | Yorkwin..... | 11.8 |
| Wisconsin..... | Turkey..... | 33.6 | Progress..... | 24.5 | Ashkof..... | 11.7 |
| Minnesota..... | Rival..... | 31.5 | Regent..... | 21.3 | Thatcher..... | 16.8 |
| Iowa..... | Iowin..... | 50.3 | Iobred..... | 25.4 | Turkey..... | 15.2 |
| Missouri..... | Clarkan..... | 38.6 | Fultz..... | 13.7 | Red May..... | 9.3 |
| North Dakota..... | Thatcher..... | 26.4 | Rival..... | 25.8 | Regent..... | 9.8 |
| South Dakota..... | Rival..... | 31.2 | Ceres..... | 20.1 | Thatcher..... | 14.0 |
| Nebraska..... | Turkey..... | 43.4 | Cheyenne..... | 22.7 | Nebred..... | 15.3 |
| Kansas..... | Tenmarq..... | 36.6 | Blackhull..... | 15.5 | Turkey..... | 14.7 |
| South Atlantic: | | | | | | |
| Delaware..... | Nittany..... | 53.0 | Leap..... | 28.6 | Fulcaster..... | 7.2 |
| Maryland..... | Leap..... | 37.9 | Nittany..... | 19.3 | Leapland..... | 10.1 |
| Virginia..... | Fulcaster..... | 21.6 | Redhart..... | 20.0 | Leap..... | 19.2 |
| West Virginia..... | do..... | 37.4 | Leap..... | 36.5 | Thorne..... | 6.0 |
| North Carolina..... | Redhart..... | 54.6 | do..... | 10.8 | Purplestraw..... | 6.4 |
| South Carolina..... | do..... | 49.8 | Purplestraw..... | 26.8 | Flint..... | 14.8 |
| Georgia..... | Purplestraw..... | 49.4 | Redhart..... | 33.1 | Sanford..... | 12.9 |
| South Central: | | | | | | |
| Kentucky..... | Fultz..... | 40.6 | Currell..... | 18.8 | Fulcaster..... | 11.7 |
| Tennessee..... | Fulcaster..... | 34.0 | do..... | 16.2 | Flint..... | 10.4 |
| Alabama..... | Purplestraw..... | 80.3 | Sanford..... | 9.8 | do..... | 4.1 |
| Mississippi..... | Flint..... | 40.5 | Hardired..... | 19.5 | Redhart..... | 18.0 |
| Arkansas..... | Red May..... | 44.7 | Fulcaster..... | 21.6 | Mediterranean..... | 20.4 |
| Oklahoma..... | Tenmarq..... | 40.3 | Blackhull..... | 16.9 | Turkey..... | 15.0 |
| Texas..... | do..... | 30.9 | do..... | 22.7 | do..... | 21.6 |
| Western: | | | | | | |
| Montana..... | Marquis..... | 28.4 | Thatcher..... | 22.5 | Turkey..... | 18.9 |
| Idaho..... | Turkey..... | 31.7 | Federation..... | 10.6 | Lemhi..... | 10.2 |
| Wyoming..... | do..... | 39.7 | Marquis..... | 15.2 | Ceres..... | 13.3 |
| Colorado..... | do..... | 26.8 | Tenmarq..... | 22.6 | Blackhull..... | 17.2 |
| New Mexico..... | Blackhull..... | 67.8 | Turkey..... | 22.3 | Thatcher..... | 3.2 |
| Arizona..... | Baart..... | 57.9 | do..... | 18.3 | Baart 38..... | 14.6 |
| Utah..... | Turkey..... | 31.9 | Federation..... | 18.2 | Dicklow..... | 9.5 |
| Nevada..... | Federation..... | 30.2 | Baart..... | 25.3 | Turkey..... | 19.5 |
| Washington..... | Baart..... | 25.4 | Turkey..... | 24.3 | Federation..... | 15.6 |
| Oregon..... | Rex..... | 27.5 | Goldcoin..... | 14.4 | do..... | 11.3 |
| California..... | White Federation 38..... | 33.1 | Baart 38..... | 27.3 | Bunyip..... | 8.2 |

The estimated acreage for 1944 and 1939 and the percentage of the total wheat acreage occupied by each variety in the United States by 5-year intervals are shown in table 3. In this table the varieties are arranged alphabetically. Here again only those varieties reported in 1944 or 1939 are shown.

TABLE 3.—*Estimated percentage of the total wheat area occupied by each of the wheat varieties of the United States at 5-year intervals since 1919, and the acreage for 1939 and 1944*

[The asterisk (*) indicates a variety reported as grown, but an estimate of acreage either was not given or if given was less than 0.01 percent of the total wheat acreage of the United States]

| Variety | Percentage | | | | | | Acreage | |
|--------------------------------------------------|------------|------|------|-------|-------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Acme..... | | 0.13 | 0.12 | 0.18 | (*) | (*) | 2,565 | 1,786 |
| Albit..... | | | .13 | .64 | 0.20 | 0.04 | 125,776 | 26,169 |
| Alicel..... | | | | | (*) | .10 | 2,596 | 62,643 |
| Allen..... | 0.02 | .01 | (*) | (*) | (*) | | 631 | |
| Alton..... | .01 | (*) | .03 | .01 | .22 | (*) | 140,705 | 1,215 |
| Apex..... | | | | | (*) | .03 | 637 | 22,884 |
| Arco..... | | | | .02 | (*) | | 547 | |
| Arnautka..... | .02 | .05 | .03 | .03 | .01 | (*) | 6,842 | 761 |
| Ashkof..... | | | (*) | (*) | .02 | .01 | 10,785 | 8,106 |
| Ashland..... | | (*) | .01 | .01 | (*) | .01 | 396. | 5,384 |
| Athens..... | | | | | (*) | (*) | 1,079 | 316 |
| Austin..... | | | | | | .01 | | 6,050 |
| Baart..... | .69 | .95 | 1.24 | 1.30 | 1.39 | 1.27 | 889,325 | 831,098 |
| Baart 38..... | | | | | | .25 | | 166,557 |
| Baldrock..... | | | | .04 | .17 | .13 | 108,664 | 84,993 |
| Berkeley Rock..... | | | .03 | .04 | .01 | .01 | 6,765 | 3,872 |
| Big Club..... | | | .01 | .06 | .05 | .04 | 34,321 | 24,248 |
| Blackhull..... | (*) | 2.99 | 9.77 | 11.11 | 12.72 | 7.05 | 8,127,624 | 4,602,088 |
| Bluechaff..... | (*) | (*) | | (*) | (*) | | 810 | |
| Brill..... | | | | | .01 | .05 | 7,748 | 30,691 |
| Bunyip..... | (*) | .06 | .19 | .12 | .15 | .07 | 94,448 | 49,103 |
| Canadian Red..... | (*) | | | | (*) | | 167 | |
| Canawa..... | | | | | (*) | | 2,628 | |
| Cache..... | | | | | | .02 | | 13,840 |
| Canus..... | | | | | | .01 | | 3,348 |
| Carleeds..... | | | | | .14 | .07 | 90,958 | 47,526 |
| Carala..... | | | | | | .01 | | 7,247 |
| Carleton..... | | | | | | .01 | | 6,113 |
| Ceres..... | | | .56 | 7.31 | 5.61 | 2.47 | 3,583,500 | 1,622,762 |
| Chequamegon..... | | | | | | (*) | | 379 |
| Cheyenne..... | | | | .07 | 1.16 | 2.13 | 743,525 | 1,398,982 |
| Chiefkan..... | | | | .75 | 2.67 | | 478,219 | 1,752,751 |
| China..... | .09 | .11 | .02 | .01 | .01 | .02 | 4,877 | 13,237 |
| Clarkan..... | | | | | .23 | 1.37 | 144,565 | 902,199 |
| Climax..... | .02 | .01 | .01 | (*) | (*) | | 474 | |
| Club (varieties not reported)..... | .53 | .32 | .20 | .04 | .03 | .01 | 17,391 | 4,650 |
| Comanche..... | | | | | | .03 | | 21,522 |
| Cooperatorka..... | | | | .06 | (*) | | 259 | |
| Cornell 595..... | | | | | | (*) | | 1,126 |
| Coronation..... | | | | | (*) | | 2,182 | |
| Currawa..... | | | | .01 | .01 | | 6,258 | |
| Currell..... | .88 | .51 | .69 | .79 | .69 | .50 | 440,550 | 329,804 |
| Dawson..... | .17 | .12 | .07 | .58 | .59 | .70 | 379,556 | 460,897 |
| Defiance..... | .27 | .07 | .07 | .06 | .02 | (*) | 10,535 | 3,176 |
| Denton..... | | | .03 | .08 | .05 | .04 | 33,648 | 24,456 |
| Dicklow..... | .23 | .23 | .41 | .29 | .22 | .13 | 139,704 | 87,077 |
| Diehl-Mediterranean..... | .16 | .12 | .06 | .08 | .01 | (*) | 9,499 | 1,344 |
| Dixon..... | (*) | | .02 | .06 | .01 | (*) | 3,570 | 657 |
| Durum ¹ (varieties not reported)..... | 5.78 | 6.06 | 5.61 | 1.92 | 2.35 | 1.55 | 1,499,791 | 1,016,948 |
| Eagle Chief..... | | | .01 | .03 | .07 | | 46,064 | |
| Early Blackhull..... | | | (*) | .13 | .51 | 2.56 | 329,095 | 1,690,732 |
| Early Premium..... | | | | | .07 | .05 | 46,970 | 32,462 |
| Eickmeyer..... | | | | | .01 | | 5,241 | |
| Enid..... | | | | | .01 | | 7,756 | |
| Erect..... | | | | | .01 | | 4,971 | |
| Escondido..... | | | (*) | .03 | .02 | (*) | 15,925 | 1,107 |
| Fairfield..... | | | | | | .06 | | 37,873 |
| Federation..... | | .06 | 1.21 | 1.14 | .93 | 1.06 | 691,940 | 694,254 |
| Flint..... | .13 | .20 | .11 | .29 | .21 | .27 | 134,849 | 178,934 |
| Flomar..... | | | | | (*) | | 65 | |
| Florence..... | | .02 | .21 | .20 | .22 | .07 | 142,298 | 46,584 |
| Forward..... | | .01 | .25 | .42 | .50 | .38 | 320,179 | 248,378 |
| Fulcaster..... | 3.53 | 3.57 | 2.26 | 2.29 | 1.91 | 1.24 | 1,223,308 | 815,267 |
| Fulhio..... | | .16 | .41 | .88 | 1.36 | .66 | 868,743 | 432,550 |
| Fultz..... | 6.59 | 3.51 | 2.33 | 3.07 | 2.28 | 1.87 | 1,455,911 | 1,212,835 |
| Fultz-Mediterranean..... | .42 | .17 | .07 | .06 | .01 | .04 | 7,713 | 28,498 |
| Galgalos..... | .05 | .03 | .02 | .02 | .03 | .03 | 19,209 | 18,085 |

¹ Includes durum and red durum classes.

TABLE 3.—Estimated percentage of the total wheat area occupied by each of the wheat varieties of the United States at 5-year intervals since 1919, and the acreage for 1939 and 1944—Continued

| Variety | Percentage | | | | | | Acreage | |
|--------------------|------------|-------|-------|-------|------|------|-----------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Garnet | | | 0.01 | 0.02 | 0.01 | (*) | 4,010 | 990 |
| Gasta | | | | (*) | (*) | (*) | 3,426 | 1,123 |
| Gipsy | 0.17 | 0.16 | .04 | .07 | .01 | (*) | 9,186 | 1,102 |
| Gladden | .01 | .20 | .07 | .06 | .05 | 0.01 | 29,665 | 8,038 |
| Goens | .18 | .20 | .04 | .11 | .14 | .09 | 92,648 | 57,431 |
| Goldcoin | 1.30 | 1.32 | 1.44 | .72 | .42 | .66 | 267,501 | 434,320 |
| Golden | | | | (*) | .06 | .25 | 38,522 | 164,824 |
| Golden Ball | | | | | .05 | | 30,000 | |
| Grandprize | .05 | .03 | (*) | (*) | .01 | .01 | 7,331 | 4,313 |
| Great Northern | | | | | .02 | .05 | 11,698 | 30,506 |
| Greeson | .01 | .02 | .02 | .02 | .02 | .02 | 10,709 | 13,296 |
| Gypsum | .01 | (*) | | (*) | (*) | | 950 | |
| Hard Federation | | .03 | .10 | .02 | .01 | .02 | 6,799 | 10,522 |
| Hard Federation 31 | | | | .01 | .01 | | 8,981 | |
| Hardired | | | | | | .07 | | 45,202 |
| Harvest Queen | 1.38 | .79 | .58 | .62 | .28 | .03 | 177,923 | 19,223 |
| Haynes Bluestem | 2.14 | .26 | .12 | .04 | (*) | (*) | 1,282 | 544 |
| Henry | | | | | | (*) | | 42 |
| Honor | | .01 | .03 | .11 | .06 | .01 | 37,073 | 7,811 |
| Hood | | | | (*) | (*) | | 906 | |
| Hope | | | .01 | .03 | .05 | (*) | 32,446 | 1,412 |
| Humpback | .04 | (*) | (*) | (*) | | (*) | | 538 |
| Huston | .03 | .05 | .01 | .02 | .02 | .01 | 12,456 | 5,106 |
| Hybrid 63 | .05 | .02 | | .01 | (*) | (*) | 2,876 | 3,341 |
| Hybrid 123 | .04 | .10 | .04 | .01 | .01 | .01 | 4,322 | 6,431 |
| Hybrid 128 | .40 | .82 | .58 | .23 | .07 | .16 | 46,362 | 106,645 |
| Hybrid 143 | .07 | .03 | .02 | .01 | (*) | | 1,089 | |
| Hymar | | | | | .20 | .31 | 126,919 | 204,672 |
| Idaed | | | | | (*) | .07 | 638 | 43,782 |
| Illinois No. 2 | | | | (*) | .02 | .02 | 11,511 | 12,672 |
| Ired | | .02 | .04 | .01 | .01 | .01 | 3,801 | 4,633 |
| Iobred | | (*) | .17 | .19 | .76 | .33 | 488,074 | 217,517 |
| Ioturk | | | .01 | .02 | .03 | .01 | 16,405 | 7,291 |
| Iowin | | | (*) | .01 | .17 | .18 | 107,206 | 116,841 |
| Java | .03 | .02 | .03 | .03 | .03 | .01 | 21,988 | 5,293 |
| Jenkin | .09 | .22 | .15 | .08 | .03 | .02 | 16,110 | 13,651 |
| Jones Fife | .65 | .41 | .27 | .19 | .10 | .04 | 64,821 | 24,795 |
| Kahla | .03 | .09 | .05 | (*) | (*) | (*) | 785 | 1,063 |
| Kanhull | | | | | | (*) | | 1,165 |
| Kanred | .14 | 8.48 | 5.60 | 4.81 | 2.41 | 1.56 | 1,538,573 | 1,023,024 |
| Karmont | | (*) | .14 | .15 | .18 | .29 | 114,148 | 190,394 |
| Kawvale | | | | .07 | 1.91 | 1.22 | 1,219,226 | 804,235 |
| Kentucky R 47 | | | | | | (*) | | 2,570 |
| Kinney | .03 | .02 | .02 | .01 | | (*) | | 1,732 |
| Kitchener | | .01 | .01 | .01 | (*) | (*) | 2,671 | 1,275 |
| Kofod | .01 | .01 | (*) | (*) | | (*) | | 1,443 |
| Komar | | | | .02 | .17 | .09 | 107,158 | 61,951 |
| Kota | | .93 | .40 | .10 | .01 | .01 | 8,772 | 4,097 |
| Kruse | | | | (*) | (*) | | 390 | |
| Kubanka | .07 | .94 | 1.17 | 1.13 | .68 | .27 | 431,630 | 180,217 |
| Ladoga | .03 | .01 | .02 | (*) | .01 | | 6,351 | |
| Leap | .72 | 1.01 | 1.09 | 1.16 | 1.05 | 1.00 | 669,509 | 659,553 |
| Leapland | | | | | .01 | .07 | 4,736 | 48,861 |
| Lemhi | | | | | (*) | .17 | 185 | 108,374 |
| Little Club | .15 | .04 | .03 | .05 | | (*) | | 2,945 |
| Lofthouse | .01 | (*) | .01 | .01 | .01 | .01 | 4,022 | 6,359 |
| Lynn | .01 | | | (*) | (*) | | 115 | |
| Mackey | | | | .01 | (*) | | 833 | |
| Major | | | | (*) | .01 | .01 | 5,355 | 6,018 |
| Mammoth Red | .01 | .01 | .09 | .07 | .04 | .04 | 25,764 | 28,047 |
| Marmin | | | | | | .01 | | 3,240 |
| Marquillo | | | .02 | .22 | .22 | .03 | 143,698 | 16,958 |
| Marquis | 16.10 | 18.89 | 19.02 | 13.96 | 5.05 | 2.33 | 3,224,867 | 1,529,428 |
| Martin | .05 | .01 | (*) | .01 | (*) | | 198 | |
| Marvel | | | .01 | .02 | .05 | .03 | 33,938 | 17,000 |
| Mealy | .09 | .02 | .01 | (*) | (*) | (*) | 676 | 2,748 |
| Mediterranean | 3.80 | 1.18 | .88 | .85 | .61 | .50 | 387,338 | 331,228 |
| Mercury | | | | | | (*) | | 70 |
| Michikof | | .10 | .22 | .15 | .15 | .05 | 93,178 | 32,341 |
| Mida | | | | | | .03 | | 18,552 |
| Mindum | | .02 | .52 | .73 | 1.18 | 1.03 | 756,329 | 678,486 |
| Minturki | | .07 | .14 | .27 | .24 | .25 | 152,855 | 164,602 |
| Monad | | .17 | .15 | .03 | .01 | | 3,647 | |
| Montana No. 36 | (*) | .04 | .05 | .03 | .04 | .02 | 24,500 | 15,256 |
| Mosida | | | .02 | .03 | .04 | .06 | 23,594 | 42,389 |

TABLE 3.—Estimated percentage of the total wheat area occupied by each of the wheat varieties of the United States at 5-year intervals since 1919, and the acreage for 1939 and 1944—Continued

| State, class, and variety | Percentage | | | | | | Acreage | |
|---------------------------|------------|------|------|------|------|------|---------|-----------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Nabob | | | (*) | (*) | 0.01 | (*) | 5,479 | 412 |
| Nebraska No. 60 | | 0.03 | 0.56 | 1.07 | .67 | 0.29 | 430,051 | 187,464 |
| Nebred | | | | | .01 | .88 | 7,770 | 580,954 |
| Newhatch | | | | | | (*) | | 2,217 |
| Newturk | | | .02 | .04 | .08 | .09 | 49,470 | 59,023 |
| Nigger | 0.38 | .39 | .20 | .25 | .19 | .12 | 123,949 | 81,650 |
| Nittany | | .51 | .64 | .67 | .79 | .70 | 504,972 | 461,762 |
| Nodak | | (*) | .06 | .03 | .01 | | 4,389 | |
| Nured | | | | | | .03 | | 19,380 |
| Oakley | (*) | (*) | (*) | | (*) | (*) | 657 | 2,531 |
| Odessa | .07 | .04 | .01 | .01 | (*) | (*) | 188 | 433 |
| Onas | | | .03 | .05 | .06 | .07 | 38,250 | 48,573 |
| Oregon Zimmerman | | | .01 | .02 | .03 | .02 | 17,402 | 12,466 |
| Orled | | | | | | (*) | | 618 |
| Oro | | | (*) | .01 | .08 | .02 | 54,288 | 10,857 |
| Pacific Bluestem | 1.87 | .73 | .59 | .27 | .20 | .08 | 129,782 | 52,859 |
| Pacific Bluestem 37 | | | | | (*) | .02 | 1,327 | 12,628 |
| Pawnee | | | | | | .02 | | 11,200 |
| Peliss | (*) | .01 | .01 | .04 | .02 | .12 | 13,186 | 77,022 |
| Pentad | .07 | .67 | 1.62 | .51 | .96 | .30 | 613,082 | 196,405 |
| Pilcrow | (*) | | .02 | .04 | .04 | .02 | 26,743 | 15,227 |
| Pilot | | | | | (*) | 1.85 | 1,993 | 1,217,009 |
| Poole | 3.37 | 2.06 | .97 | 1.10 | .58 | .32 | 368,512 | 208,188 |
| Portage | .01 | .11 | .02 | .04 | .01 | (*) | 6,812 | 524 |
| Poso | | | | (*) | .04 | .01 | 23,126 | 7,348 |
| Power | .01 | .10 | .03 | .03 | (*) | | 1,017 | |
| Powerclub | | .01 | (*) | .01 | (*) | | 59 | |
| Prairie | | | | | | (*) | | 244 |
| Premier | | | | | | .04 | | 27,543 |
| Preston | 3.06 | .77 | .46 | .21 | .03 | (*) | 18,690 | 2,700 |
| Progress | | (*) | .05 | .15 | .09 | .03 | 57,637 | 18,777 |
| Propo | .03 | .02 | .03 | (*) | (*) | | 392 | |
| Prosperity | .06 | (*) | .01 | .01 | .03 | (*) | 16,214 | 2,909 |
| Purdue No. 1 | | | | (*) | .08 | .06 | 54,277 | 36,651 |
| Purkof | | | .32 | .49 | .56 | .24 | 355,647 | 158,753 |
| Purplestraw | .38 | .23 | .24 | .50 | .47 | .46 | 298,035 | 303,426 |
| Ramona | | | | (*) | .01 | .02 | 8,682 | 14,854 |
| Red Bobs | | .03 | .03 | .01 | .02 | .01 | 9,793 | 5,248 |
| Redchaff | .05 | .01 | .01 | .01 | .01 | (*) | 3,744 | 2,259 |
| Red Chief | | | | | | 1.24 | | 817,562 |
| Red Clawson | .11 | .04 | .02 | .03 | .02 | (*) | 10,880 | 2,790 |
| Red Fife | 1.03 | .34 | .05 | .03 | .01 | (*) | 3,884 | 445 |
| Redhart | | | (*) | .19 | .43 | 1.05 | 276,442 | 690,421 |
| Redhull | | | .01 | .14 | .24 | .05 | 154,807 | 36,108 |
| Red Indian | | (*) | | | .01 | (*) | 5,393 | 638 |
| Red May | 1.60 | .79 | 1.29 | 1.60 | .93 | .58 | 594,566 | 378,079 |
| Red Rock | .30 | .67 | .42 | .36 | .25 | .25 | 160,141 | 163,212 |
| Red Russian | .21 | .10 | .09 | .04 | .02 | .03 | 11,340 | 21,880 |
| Red Wave | 1.53 | .86 | .41 | .50 | .26 | .18 | 167,632 | 121,278 |
| Regent | | | | | | 2.03 | | 1,333,725 |
| Reliance | | | (*) | (*) | | (*) | | 1,659 |
| Reliant | | | | | | .01 | | 6,022 |
| Relief | | | | (*) | .14 | .03 | 87,487 | 20,375 |
| Renown | | | | | .08 | .83 | 51,509 | 542,329 |
| Requa | | | | | (*) | .01 | 1,138 | 4,424 |
| Reward | | | .01 | .38 | .31 | .36 | 197,308 | 236,943 |
| Rex | | | | | .58 | .68 | 370,159 | 449,787 |
| Rice | .04 | .11 | .01 | .02 | .06 | .02 | 40,149 | 10,793 |
| Ridit | | (*) | .27 | .26 | .21 | .08 | 132,526 | 49,201 |
| Rink | .02 | .04 | .05 | .01 | .01 | (*) | 5,007 | 1,614 |
| Rio | | | | (*) | .03 | .05 | 18,361 | 29,979 |
| Rival | | | | | (*) | 6.17 | 1,011 | 4,050,900 |
| Ruby | | .65 | .30 | .13 | .01 | .01 | 4,602 | 3,819 |
| Rudy | .56 | .49 | .31 | .35 | .36 | .31 | 229,060 | 203,345 |
| Russian | | .04 | .03 | .01 | .04 | .04 | 25,337 | 24,278 |
| Russian Red | .24 | .10 | .10 | .05 | .01 | .07 | 3,559 | 46,067 |
| Sanett | | | | | | (*) | | 482 |
| Sanford | | | | | | .05 | | 33,970 |
| Sea Island | .02 | .05 | .01 | .01 | .01 | | 8,470 | |
| Sevier | (*) | (*) | (*) | (*) | (*) | (*) | 50 | 875 |
| Shepherd | | | .01 | (*) | (*) | (*) | 238 | |
| Sherman | | | (*) | .01 | (*) | (*) | 2,543 | 1,824 |
| Sibley No. 81 | | | | .04 | .12 | (*) | 74,077 | 1,500 |
| Silvercoin | (*) | (*) | .01 | (*) | | .01 | | 7,215 |
| Sonora | .37 | .17 | .15 | .08 | | .02 | 23,250 | 15,921 |
| Sonora 37 | | | | | (*) | | 241 | |

TABLE 3.—*Estimated percentage of the total wheat area occupied by each of the wheat varieties of the United States at 5-year intervals since 1919, and the acreage for 1939 and 1944—Continued*

| State, class, and variety | Percentage | | | | | | Acreage | |
|-------------------------------|------------|--------|--------|--------|--------|--------|--------------|--------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | 1939 | 1944 |
| Squareheads Master..... | | | | (*) | (*) | (*) | 643 | 2, 194 |
| Stanley..... | | | | | | (*) | | 235 |
| Stewart..... | | | | | | 0.02 | | 12, 389 |
| Sturgeon..... | | | | | 0.01 | .01 | 5, 459 | 5, 090 |
| Supreme..... | | | 0.48 | 0.31 | .17 | .07 | 110, 018 | 48, 509 |
| Surprise..... | 0.08 | 0.03 | .04 | .01 | (*) | (*) | 2, 755 | 71 |
| Tenmarq..... | | | | .29 | 5.51 | 13.31 | 3, 522, 378 | 8, 744, 053 |
| Thatcher..... | | | | (*) | 8.64 | 6.78 | 5, 524, 631 | 4, 450, 254 |
| Thorne..... | | | | | .01 | 2.42 | 3, 239 | 1, 587, 783 |
| Touse..... | .03 | .02 | .01 | (*) | (*) | (*) | 503 | 1, 073 |
| Triplet..... | | .20 | .27 | .20 | .15 | .07 | 93, 850 | 43, 882 |
| Triumph..... | | | | | | .11 | | 72, 459 |
| Trumbull..... | (*) | 1.17 | 1.46 | 1.86 | 2.01 | .90 | 1, 285, 464 | 590, 448 |
| Turkey..... | 29.63 | 28.18 | 25.69 | 24.80 | 19.77 | 12.63 | 12, 637, 403 | 8, 295, 881 |
| Ukrainka..... | | | | (*) | .01 | (*) | 8, 307 | 1, 340 |
| Union..... | | | | | (*) | | | 974 |
| Utac..... | | | (*) | (*) | .01 | .01 | 3, 960 | 4, 291 |
| Utah Kanred..... | | | .03 | .04 | .08 | .03 | 48, 382 | 21, 273 |
| Valley..... | .01 | .01 | (*) | .01 | .01 | | 8, 643 | |
| Valprize..... | | | | .01 | .03 | (*) | 17, 435 | 2, 722 |
| Vesta..... | | | | | | .59 | | 386, 057 |
| V. P. I. 112..... | | | .05 | .02 | .01 | .01 | 9, 409 | 4, 201 |
| V. P. I. 131..... | | | .13 | .18 | .15 | .16 | 97, 151 | 103, 258 |
| Wabash..... | | | | | (*) | .07 | 649 | 46, 806 |
| Wasatch..... | | | | | | (*) | | 2, 992 |
| Wheedling..... | .01 | .01 | (*) | .01 | | (*) | | 1, 350 |
| White Federation..... | | (*) | .06 | .17 | .36 | .07 | 227, 704 | 47, 978 |
| White Federation 38..... | | | | | | .30 | | 197, 840 |
| White Fife..... | | | | | | (*) | | 83 |
| White Winter..... | .07 | .06 | .04 | .03 | .04 | .05 | 23, 446 | 32, 612 |
| Wilhelmina..... | | | .04 | .06 | .06 | .09 | 36, 436 | 57, 003 |
| Wisconsin Pedigree No. 2..... | .01 | .01 | .01 | (*) | .02 | .01 | 10, 382 | 3, 182 |
| Yogo..... | | | | | .05 | .23 | 34, 794 | 150, 924 |
| Yorkwin..... | | | | | .19 | .69 | 122, 261 | 452, 777 |
| Others and not reported..... | 7.25 | 3.89 | 2.56 | 2.17 | 1.74 | .81 | 1, 112, 896 | 532, 424 |
| Total..... | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 63, 911, 000 | 65, 684, 000 |

The varieties grown on a million acres or more in each of the six surveys are listed in table 4 in the order of their importance.

TABLE 4.—*Varieties of wheat grown to the extent of more than a million acres, listed in order of acreage at 5-year periods since 1919*

| Rank | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 |
|------|------------------|-----------|-----------|-----------|-----------|------------------|
| 1 | Turkey | Turkey | Turkey | Turkey | Turkey | Tenmarq. |
| 2 | Marquis | Marquis | Marquis | Marquis | Blackhull | Turkey. |
| 3 | Fultz | Kanred | Blackhull | Blackhull | Thatcher | Blackhull. |
| 4 | Mediterranean | Fulcaster | Kanred | Ceres | Ceres | Thatcher. |
| 5 | Fulcaster | Fultz | Fultz | Kanred | Tenmarq. | Rival. |
| 6 | Poole | Blackhull | Fulcaster | Fultz | Marquis. | Chiefkan. |
| 7 | Preston | Poole | Pentad | Fulcaster | Kanred | Early Blackhull. |
| 8 | Haynes Bluestem | | | Trumbull | Fultz | Ceres. |
| 9 | Pacific Bluestem | | | | Trumbull | Thorne. |
| 10 | Red May | | | | Fulcaster | Marquis. |
| 11 | Red Wave | | | | Kawvale. | Cheyenne. |
| 12 | Harvest Queen | | | | | Regent. |
| 13 | | | | | | Pilot. |
| 14 | | | | | | Fultz. |
| 15 | | | | | | Kanred. |

This is the first time in the series of surveys that Turkey has not had the largest estimated acreage. Tenmarq, which ranked fifth in 1939, replaced Turkey as the leading variety in 1944. Blackhull, which ranked second in 1939, was in third place in 1944, while

Thatcher dropped from third to fourth place. For a number of years Marquis ranked second to Turkey in importance, but by 1939 it had dropped to sixth and in 1944 to tenth place. A number of varieties appear in this list for the first time; for example, Rival, Chiefkan, Early Blackhull, Thorne, Cheyenne, Regent, and Pilot. This list emphasizes the change that is taking place in the wheat varietal picture in the United States.

Of the 216 varieties reported in 1944, 15 occupied more than 1 million acres each; 23 from 250,000 to 1,000,000 acres each; 35 from 50,000 to 250,000 acres each; and 144 occupied less than 50,000 acres each. This indicates that a number of varieties are rapidly increasing in importance and are being grown on land formerly occupied by such standard wheats as Turkey and Marquis. It also indicates that a large number of varieties are grown on very limited acreages, due to one or more of several reasons. In some cases a variety may be well adapted to only a very small area. New varieties may fail to replace old ones entirely because of lack of adaptability or lack of widespread knowledge of the merits of the new varieties.

In general, new varieties are being introduced about as rapidly as the old ones drop out. It would seem desirable to have a smaller number of more widely adapted varieties, and the breeding work now being carried on has this objective in view. The three leading varieties in each State in 1944 are listed in table 2. Turkey is the leading variety in six States, second in three, and third in six. Tenmarq leads in three States and is second in one, while Blackhull leads in one State, is second in three, and third in one. Fultz, a soft wheat, ranks first in three States and second in one, while Leap was first in two and second in four States. Such varieties as Marquis, Rival, Nittany, Fulcaster, Redhart, and Baart are leading varieties in more than one State each.

The data in tables 3 and 4 show that Tenmarq, Turkey, Blackhull, and Thatcher were the most extensively grown varieties in 1944. Together they comprise nearly 40 percent of the total wheat acreage of the United States. The only other varieties approaching these in importance are Rival, Chiefkan, and Early Blackhull, in the order named. The 15 varieties listed in table 4, each being grown on more than a million acres in 1944, occupied 67.89 percent of the total wheat acreage of the United States.

Changes in the distribution of the varieties are constantly taking place. During the 5-year period 1939 to 1944 the following varieties increased most: Tenmarq from 3,522,378 to 8,744,053 acres, or from 5.51 to 13.31 percent; Rival from a trace to 6.17 percent; Thorne from 0.01 to 2.42 percent; Regent from 0 to 2.0 percent, and Early Blackhull from 0.51 to 2.56 percent. The greatest decreases were Turkey, 19.77 to 12.63 percent; Blackhull, 12.72 to 7.05; Marquis, 5.05 to 2.33; and Ceres, from 5.61 to 2.47.

CLASSES OF WHEAT

According to the official grain standards of the United States, wheat is now separated into seven commercial classes: (1) Hard red spring, (2) durum, (3) red durum, (4) hard red winter, (5) soft red winter, (6) white, and (7) mixed wheat. Most of the classes

have two or three subclasses, and each subclass has five numerical grades and a sample grade. All varieties are included in one or another of the seven classes. In order to show the relative importance and distribution of the different classes, the acreages of the varieties making up each class were totaled. In this report the durum and red durum acreages are tabulated together, as only one variety and a small acreage of red durum are grown. The acreage for 1944 of each class and its percentage of the entire wheat acreage for each crop-reporting district and each State, arranged by geographical divisions, are shown in table 5 and summarized in table 6. The location and number of each crop-reporting district is shown in figure 2.

In table 5 the acreage of "Others and not reported" is distributed among the classes in proportions determined by the acreages of varieties reported; thus the total wheat acreage of each State was accounted for. This distribution was made by crop-reporting districts.

TABLE 5.—*Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944*

[The asterisk (*) indicates a class reported as grown but occupying less than 0.1 percent of the total wheat acreage of the district or State]

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|----------------------------------|--------------------|--------------|------------------------|--------------|--------------------|--------------|--------------------|--------------|---------|--------------|------------------|
| | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | |
| North Atlantic: | | | | | | | | | | | |
| Maine: | | | | | | | | | | | |
| 1 | 1,796 | 95.6 | | | | | | | 83 | 4.4 | 1,879 |
| 2 | 86 | 100.0 | | | | | | | | | 86 |
| 3 | 35 | 100.0 | | | | | | | | | 35 |
| Total | 1,917 | 95.9 | | | | | | | 83 | 4.1 | 2,000 |
| New York: | | | | | | | | | | | |
| 2 | | | | | | | 133 | 22.2 | 467 | 77.8 | 600 |
| 3 | 100 | 33.3 | | | | | | | 200 | 66.7 | 300 |
| 4 | 108 | (*) | | | | | 15,755 | 6.0 | 248,237 | 94.0 | 264,100 |
| 5 | 797 | 1.7 | | | | | 2,235 | 4.8 | 43,468 | 93.5 | 46,500 |
| 6 | | | | | | | 176 | 2.6 | 6,624 | 97.4 | 6,800 |
| 7 | 1,923 | 9.5 | | | | | 2,967 | 14.6 | 15,410 | 75.9 | 20,300 |
| 8 | 8 | (*) | | | | | 1,256 | 5.6 | 21,136 | 94.4 | 22,400 |
| 9 | | | | | | | 2,608 | 42.1 | 3,592 | 57.9 | 6,200 |
| 9A | | | | | | | 959 | 53.3 | 841 | 46.7 | 1,800 |
| Total | 2,936 | .8 | | | | | 26,089 | 7.1 | 339,975 | 92.1 | 369,000 |
| New Jersey: | | | | | | | | | | | |
| 2 | | | | | | | 27,947 | 96.4 | 1,053 | 3.6 | 29,000 |
| 5 | | | | | | | 32,000 | 100.0 | | | 32,000 |
| 8 | | | | | 68 | 0.5 | 13,932 | 99.5 | | | 14,000 |
| Total | | | | | 68 | .1 | 73,879 | 98.5 | 1,053 | 1.4 | 75,000 |
| Pennsylvania: | | | | | | | | | | | |
| 1 | | | | | 58 | .2 | 30,688 | 99.0 | 244 | .8 | 30,990 |
| 2 | | | | | 713 | 2.0 | 30,777 | 85.7 | 4,400 | 12.3 | 35,890 |
| 3 | | | | | 80 | 7.0 | 841 | 73.8 | 210 | 18.4 | 1,140 |
| 4 | | | | | 1,747 | 2.2 | 76,262 | 97.0 | 641 | .8 | 78,650 |
| 5 | | | | | 37 | (*) | 193,780 | 98.9 | 2,223 | 1.1 | 196,040 |
| 6 | | | | | | | 64,932 | 97.9 | 1,428 | 2.1 | 66,360 |
| 7 | | | | | 518 | .8 | 68,110 | 98.8 | 272 | .4 | 68,900 |
| 8 | | | | | | | 240,600 | 100.0 | | | 240,600 |
| 9 | | | | | | | 213,859 | 96.6 | 7,541 | 3.4 | 221,430 |
| Total | 9 | (*) | | | 3,153 | .3 | 919,879 | 97.9 | 16,959 | 1.8 | 940,000 |

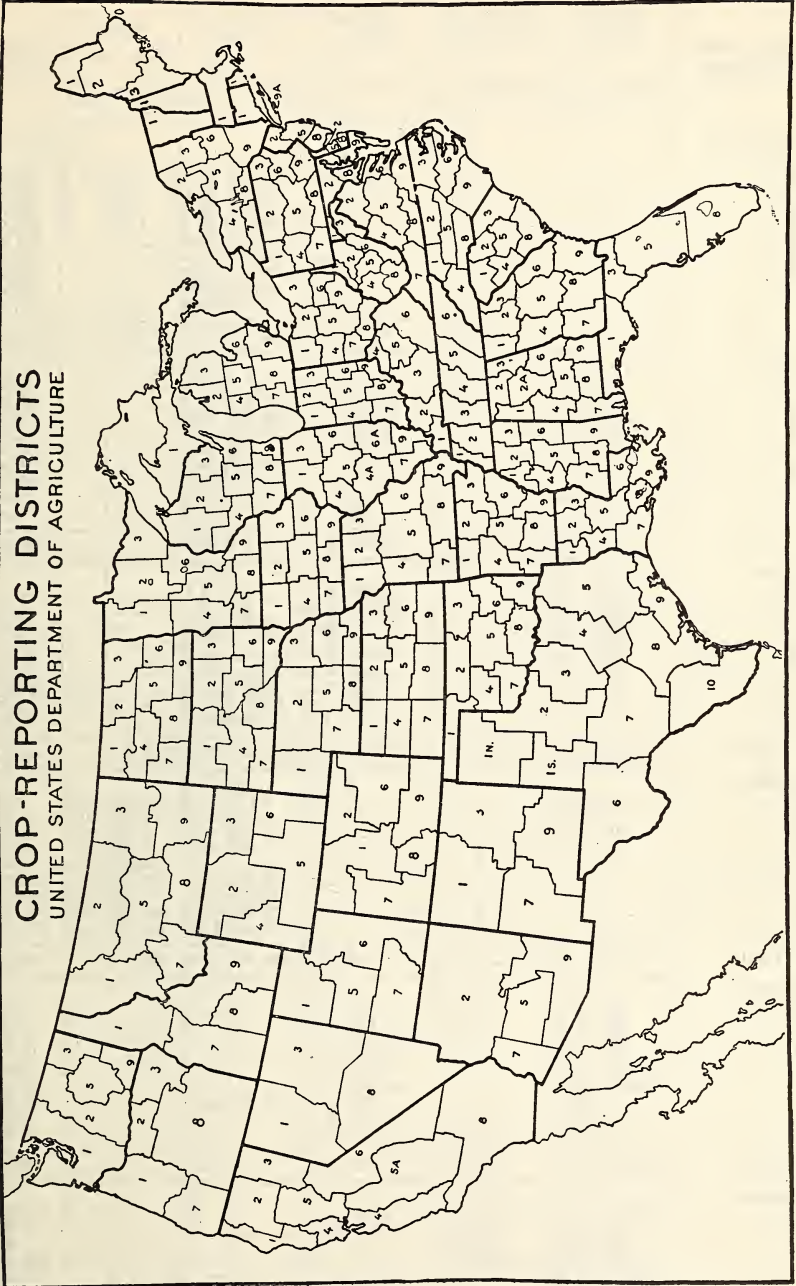


FIGURE 2.—Crop-reporting districts in 1944 within the States of the United States.

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|----------------------------------|--------------------|--------------|------------------------|--------------|--------------------|--------------|--------------------|--------------|---------|--------------|------------------|
| | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | |
| North Central: | | | | | | | | | | | |
| Ohio: | | | | | | | | | | | |
| 1 | ----- | ----- | ----- | ----- | 6,420 | 2.0 | 301,348 | 94.4 | 11,432 | 3.6 | 319,200 |
| 2 | ----- | ----- | ----- | ----- | ----- | ----- | 319,956 | 99.7 | 1,044 | .3 | 321,000 |
| 3 | ----- | ----- | ----- | ----- | ----- | ----- | 198,781 | 99.8 | 319 | .2 | 199,100 |
| 4 | ----- | ----- | ----- | ----- | 178 | .1 | 283,680 | 99.3 | 1,742 | .6 | 285,600 |
| 5 | ----- | ----- | ----- | ----- | ----- | ----- | 416,000 | 100.0 | ----- | ----- | 416,000 |
| 6 | ----- | ----- | ----- | ----- | ----- | ----- | 97,500 | 100.0 | ----- | ----- | 97,500 |
| 7 | ----- | ----- | ----- | ----- | ----- | ----- | 226,500 | 100.0 | ----- | ----- | 226,500 |
| 8 | ----- | ----- | ----- | ----- | ----- | ----- | 105,800 | 100.0 | ----- | ----- | 105,800 |
| 9 | ----- | ----- | ----- | ----- | ----- | ----- | 87,300 | 100.0 | ----- | ----- | 87,300 |
| Total | ----- | ----- | ----- | ----- | 6,598 | .3 | 2,036,865 | 99.0 | 14,537 | .7 | 2,058,000 |
| Indiana: | | | | | | | | | | | |
| 1 | 585 | 0.6 | ----- | ----- | 92,057 | 96.2 | 3,058 | 3.2 | ----- | ----- | 95,700 |
| 2 | 138 | .1 | ----- | ----- | 34,519 | 22.1 | 121,343 | 77.8 | ----- | ----- | 156,000 |
| 3 | 138 | .1 | ----- | ----- | 20,902 | 13.1 | 138,860 | 86.8 | ----- | ----- | 159,900 |
| 4 | 139 | .1 | ----- | ----- | 18,742 | 16.8 | 92,819 | 83.1 | ----- | ----- | 111,700 |
| 5 | 107 | (*) | ----- | ----- | 21,534 | 7.8 | 255,459 | 92.2 | ----- | ----- | 277,100 |
| 6 | ----- | ----- | ----- | ----- | 7,140 | 6.2 | 107,160 | 93.8 | ----- | ----- | 114,300 |
| 7 | ----- | ----- | ----- | ----- | ----- | ----- | 251,200 | 100.0 | ----- | ----- | 251,200 |
| 8 | ----- | ----- | ----- | ----- | ----- | ----- | 72,900 | 100.0 | ----- | ----- | 72,900 |
| 9 | ----- | ----- | ----- | ----- | 525 | .5 | 98,675 | 99.5 | ----- | ----- | 99,200 |
| Total | 1,107 | .1 | ----- | ----- | 195,419 | 14.6 | 1,141,474 | 85.3 | ----- | ----- | 1,338,000 |
| Illinois: | | | | | | | | | | | |
| 1 | 1,311 | 5.7 | ----- | ----- | 20,983 | 90.4 | 906 | 3.9 | ----- | ----- | 232,000 |
| 3 | 4,900 | 31.8 | ----- | ----- | 10,100 | 65.6 | 400 | 2.6 | ----- | ----- | 15,400 |
| 4 | 303 | .4 | ----- | ----- | 40,355 | 56.4 | 30,942 | 43.2 | ----- | ----- | 71,600 |
| 4A | 602 | .2 | ----- | ----- | 74,937 | 21.1 | 278,561 | 78.7 | ----- | ----- | 354,100 |
| 5 | 405 | .3 | ----- | ----- | 70,640 | 55.2 | 56,855 | 44.5 | ----- | ----- | 127,900 |
| 6 | 101 | .4 | ----- | ----- | 18,012 | 81.9 | 3,887 | 17.7 | ----- | ----- | 22,000 |
| 6A | 404 | .3 | ----- | ----- | 47,521 | 37.0 | 80,475 | 62.7 | ----- | ----- | 128,400 |
| 7 | ----- | ----- | ----- | ----- | 873 | .2 | 413,315 | 97.8 | 8,812 | 2.0 | 423,000 |
| 9 | ----- | ----- | ----- | ----- | 13,495 | 7.4 | 167,905 | 92.6 | ----- | ----- | 181,400 |
| Total | 8,026 | .6 | ----- | ----- | 296,916 | 22.0 | 1,033,246 | 76.7 | 8,812 | .7 | 1,347,000 |
| Michigan: | | | | | | | | | | | |
| 1 | 1,281 | 22.8 | ----- | ----- | ----- | ----- | 2,078 | 36.9 | 2,271 | 40.3 | 5,630 |
| 2 | 124 | .9 | ----- | ----- | 42 | .3 | 6,775 | 48.8 | 6,939 | 50.0 | 13,880 |
| 3 | 308 | 2.0 | ----- | ----- | ----- | ----- | 8,086 | 51.4 | 7,336 | 46.6 | 15,730 |
| 4 | ----- | ----- | ----- | ----- | ----- | ----- | 11,303 | 67.7 | 5,397 | 32.3 | 16,700 |
| 5 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | 65,560 | 100.0 | 65,560 | |
| 6 | ----- | ----- | ----- | ----- | ----- | ----- | 30,081 | 20.2 | 118,919 | 79.8 | 149,000 |
| 7 | ----- | ----- | ----- | ----- | ----- | ----- | 57,132 | 38.5 | 91,368 | 61.5 | 148,500 |
| 8 | ----- | ----- | ----- | ----- | ----- | ----- | 128,698 | 40.8 | 187,002 | 59.2 | 315,700 |
| 9 | ----- | ----- | ----- | ----- | ----- | ----- | 86,118 | 35.8 | 154,182 | 64.2 | 240,300 |
| Total | 1,713 | .2 | ----- | ----- | 42 | (*) | 330,271 | 34.0 | 638,974 | 65.8 | 971,000 |
| Wisconsin: | | | | | | | | | | | |
| 1 | 644 | 15.6 | 34 | 0.8 | 3,452 | 83.6 | ----- | ----- | ----- | ----- | 4,130 |
| 2 | 420 | 27.6 | ----- | ----- | 1,100 | 72.4 | ----- | ----- | ----- | ----- | 1,520 |
| 3 | 740 | 17.6 | ----- | ----- | 3,460 | 82.4 | ----- | ----- | ----- | ----- | 4,200 |
| 4 | 5,410 | 34.9 | ----- | ----- | 10,110 | 65.1 | ----- | ----- | ----- | ----- | 15,520 |
| 5 | 2,300 | 46.6 | ----- | ----- | 2,640 | 53.4 | ----- | ----- | ----- | ----- | 4,940 |
| 6 | 10,603 | 50.0 | ----- | ----- | 10,607 | 50.0 | ----- | ----- | ----- | ----- | 21,210 |
| 7 | 980 | 24.7 | ----- | ----- | 1,120 | 28.3 | 1,860 | 47.0 | ----- | ----- | 3,960 |
| 8 | 5,540 | 70.4 | ----- | ----- | 2,330 | 29.6 | ----- | ----- | ----- | ----- | 7,870 |
| 9 | 3,800 | 67.3 | ----- | ----- | 1,850 | 32.7 | ----- | ----- | ----- | ----- | 5,650 |
| Total | 30,437 | 44.1 | 34 | .1 | 36,669 | 53.1 | 1,860 | 2.7 | ----- | ----- | 69,000 |
| Minnesota: | | | | | | | | | | | |
| 1 | 661,653 | 91.7 | 53,647 | 7.4 | 6,300 | .9 | ----- | ----- | ----- | ----- | 721,600 |
| 2 | 6,116 | 52.3 | 306 | 2.6 | 5,278 | 45.1 | ----- | ----- | ----- | ----- | 11,700 |
| 3 | 720 | 80.0 | 180 | 20.0 | ----- | ----- | ----- | ----- | ----- | ----- | 900 |
| 4 | 322,780 | 97.8 | 7,320 | 2.2 | ----- | ----- | ----- | ----- | ----- | ----- | 330,100 |
| 5 | 67,033 | 55.3 | 1,156 | 1.0 | 52,911 | 43.7 | ----- | ----- | ----- | ----- | 121,100 |
| 6 | 3,315 | 17.8 | ----- | ----- | 15,285 | 82.2 | ----- | ----- | ----- | ----- | 18,600 |

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|--------------------------------|-----------------|---------|---------------------|---------|-----------------|---------|-----------------|---------|---------|---------|---------------|
| | Acreage | Percent | Acreage | Percent | Acreage | Percent | Acreage | Percent | Acreage | Percent | |
| North Central—Continued | | | | | | | | | | | |
| Minnesota—Con. | | | | | | | | | | | |
| 7..... | 16,170 | 88.8 | 1,180 | 6.5 | 850 | 4.7 | | | | | 18,200 |
| 8..... | 19,557 | 40.5 | | | 28,743 | 59.5 | | | | | 48,300 |
| 9..... | 16,858 | 28.8 | | | 41,642 | 71.2 | | | | | 58,500 |
| Total..... | 1,114,202 | 83.8 | 63,789 | 4.8 | 151,009 | 11.4 | | | | | 1,329,000 |
| Iowa: | | | | | | | | | | | |
| 1..... | 2,124 | 59.8 | | | 1,426 | 40.2 | | | | | 3,550 |
| 2..... | 370 | 56.1 | | | 290 | 43.9 | | | | | 660 |
| 3..... | 640 | 32.2 | | | 1,350 | 67.8 | | | | | 1,990 |
| 4..... | 2,682 | 5.3 | 159 | .1 | 47,529 | 94.1 | | | 130 | 0.1 | 50,500 |
| 5..... | 131 | 1.4 | | | 9,269 | 98.6 | | | | | 9,400 |
| 6..... | 339 | 6.8 | | | 4,631 | 93.2 | | | | | 4,970 |
| 7..... | 76 | .2 | | | 51,058 | 99.7 | 66 | 0.1 | | | 51,200 |
| 8..... | 40 | .3 | | | 14,080 | 99.7 | | | | | 14,120 |
| 9..... | 30 | .1 | | | 23,437 | 99.3 | 143 | .6 | | | 23,610 |
| Total..... | 6,432 | 4.0 | 159 | .1 | 153,070 | 95.7 | 209 | .1 | 130 | .1 | 160,000 |
| Missouri: | | | | | | | | | | | |
| 1..... | | | 2,270 | 1.0 | 79,187 | 35.9 | 139,543 | 63.1 | | | 221,000 |
| 2..... | | | | | 755 | .7 | 115,242 | 99.3 | | | 116,000 |
| 3..... | | | | | 14,045 | 16.3 | 71,952 | 83.7 | | | 86,000 |
| 4..... | | | | | 11,361 | 5.8 | 184,639 | 94.2 | | | 196,000 |
| 5..... | | | | | 6,814 | 2.4 | 277,186 | 97.6 | | | 284,000 |
| 6..... | | | | | 1,185 | .3 | 372,815 | 99.7 | | | 374,000 |
| 7..... | | | | | | | 214,000 | 100.0 | | | 214,000 |
| 8..... | | | | | | | 66,000 | 100.0 | | | 66,000 |
| 9..... | | | | | 5,544 | 3.5 | 151,456 | 96.5 | | | 157,000 |
| Total..... | | | 2,270 | .1 | 118,891 | 7.0 | 1,592,836 | 92.9 | | | 1,714,000 |
| North Dakota: | | | | | | | | | | | |
| 1..... | 1,469,803 | 95.6 | 67,197 | 4.4 | | | | | | | 1,537,000 |
| 2..... | 867,677 | 69.6 | 379,323 | 30.4 | | | | | | | 1,247,000 |
| 3..... | 910,079 | 55.5 | 729,921 | 44.5 | | | | | | | 1,640,000 |
| 4..... | 953,776 | 97.6 | 23,224 | 2.4 | | | | | | | 977,000 |
| 5..... | 762,908 | 72.8 | 285,092 | 27.2 | | | | | | | 1,048,000 |
| 6..... | 881,393 | 88.9 | 110,431 | 11.1 | 176 | (*) | | | | | 992,000 |
| 7..... | 964,967 | 99.5 | 2,929 | .3 | 1,258 | .1 | | | 846 | .1 | 970,000 |
| 8..... | 776,541 | 95.5 | 35,327 | 4.4 | 1,132 | .1 | | | | | 813,000 |
| 9..... | 774,035 | 82.5 | 163,965 | 17.5 | | | | | | | 938,000 |
| Total..... | 8,361,179 | 82.3 | 1,797,409 | 17.7 | 2,566 | (*) | | | 846 | (*) | 10,162,000 |
| South Dakota: | | | | | | | | | | | |
| 1..... | 294,721 | 94.2 | 4,961 | 1.6 | 11,406 | 3.6 | | | 1,872 | .6 | 312,960 |
| 2..... | 1,119,179 | 97.7 | 24,196 | 2.1 | 2,345 | .2 | | | | | 1,145,720 |
| 3..... | 453,211 | 87.2 | 66,477 | 12.8 | 52 | (*) | | | | | 519,740 |
| 4..... | 194,520 | 88.2 | 13,836 | 6.3 | 11,448 | 5.2 | | | 726 | .3 | 220,530 |
| 5..... | 304,538 | 93.0 | 3,245 | 1.0 | 4,989 | 1.5 | | | 14,858 | 4.5 | 327,630 |
| 6..... | 104,644 | 81.6 | 19,780 | 15.4 | 576 | .4 | | | 3,210 | 2.6 | 128,310 |
| 7..... | 70,020 | 54.3 | 1,424 | 1.1 | 57,556 | 44.6 | | | | | 129,000 |
| 8..... | 112,415 | 32.5 | 123,171 | 35.7 | 108,542 | 31.4 | | | 1,352 | .4 | 345,480 |
| 9..... | 102,094 | 81.3 | 251 | .2 | 6,321 | 5.0 | | | 16,964 | 13.5 | 125,630 |
| Total..... | 2,755,342 | 84.7 | 257,341 | 7.9 | 203,235 | 6.2 | | | 39,082 | 1.2 | 3,255,000 |
| Nebraska: | | | | | | | | | | | |
| 1..... | 69,454 | 8.0 | 886 | .1 | 800,760 | 91.9 | | | | | 871,100 |
| 2..... | 5,654 | 26.1 | 2,116 | 9.8 | 13,880 | 64.1 | | | | | 21,650 |
| 3..... | 4,735 | 15.3 | 180 | .6 | 25,710 | 82.8 | | | 415 | 1.3 | 31,040 |
| 5..... | 1,264 | .6 | 276 | .1 | 226,410 | 99.3 | | | | | 227,950 |
| 6..... | 2,120 | .4 | | | 537,140 | 99.6 | | | | | 539,260 |
| 7..... | 1,360 | .2 | | | 740,860 | 99.8 | | | | | 742,220 |
| 8..... | 4,440 | .9 | | | 499,820 | 99.1 | | | | | 504,260 |
| 9..... | 1,100 | .1 | | | 731,024 | 95.3 | 35,396 | 4.6 | | | 767,520 |
| Total..... | 90,127 | 2.4 | 3,458 | .1 | 3,575,604 | 96.5 | 35,396 | 1.0 | 415 | (*) | 3,765,000 |

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|----------------------------------|--------------------|--------------|------------------------|--------------|--------------------|--------------|--------------------|--------------|---------|--------------|------------------|
| | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | |
| North Central— Continued | | | | | | | | | | | |
| Kansas: | | | | | | | | | | | |
| 1 | 2,688 | 0.2 | | | 1,424,122 | 99.8 | | | | | 1,426,810 |
| 2 | | | | | 1,565,801 | 97.0 | 49,199 | 3.0 | | | 1,615,000 |
| 3 | | | | | 181,265 | 47.3 | 201,735 | 52.7 | | | 383,000 |
| 4 | 477 | (*) | | | 1,316,123 | 100.0 | | | | | 1,316,600 |
| 5 | | | | | 2,209,009 | 98.2 | 39,991 | 1.8 | | | 2,249,000 |
| 6 | | | | | 110,234 | 34.8 | 206,866 | 65.2 | | | 317,100 |
| 7 | 3,384 | .1 | | | 2,507,196 | 99.8 | 2,010 | .1 | | | 2,512,500 |
| 8 | | | | | 2,835,631 | 99.2 | 24,369 | .8 | | | 2,860,000 |
| 9 | | | | | 168,821 | 39.9 | 254,079 | 60.1 | | | 422,900 |
| Total | 6,549 | .1 | | | 12,318,202 | 94.0 | 778,249 | 5.9 | | | 13,103,000 |
| South Atlantic: | | | | | | | | | | | |
| Delaware: | | | | | | | | | | | |
| 2 | | | | | | | 25,400 | 100.0 | | | 25,400 |
| 5 | | | | | | | 32,500 | 100.0 | | | 32,500 |
| 8 | | | | | | | 10,100 | 100.0 | | | 10,100 |
| Total | | | | | | | 68,000 | 100.0 | | | 68,000 |
| Maryland: | | | | | | | | | | | |
| 1 | | | | | | | 6,300 | 100.0 | | | 6,300 |
| 2 | | | | | | | 44,900 | 100.0 | | | 44,900 |
| 3 | | | | | | | 166,200 | 100.0 | | | 166,200 |
| 4 | | | | | | | 102,800 | 100.0 | | | 102,800 |
| 5 | | | | | | | 39,100 | 100.0 | | | 39,100 |
| 6 | | | | | | | 41,700 | 100.0 | | | 41,700 |
| Total | | | | | | | 401,000 | 100.0 | | | 401,000 |
| Virginia: | | | | | | | | | | | |
| 2 | | | | | | | 163,000 | 100.0 | | | 163,000 |
| 4 | | | | | | | 62,000 | 100.0 | | | 62,000 |
| 5 | | | | | | | 123,000 | 100.0 | | | 123,000 |
| 6 | | | | | | | 44,000 | 100.0 | | | 44,000 |
| 7 | | | | | | | 82,000 | 100.0 | | | 82,000 |
| 8 | | | | | | | 67,000 | 100.0 | | | 67,000 |
| 9 | | | | | | | 33,000 | 100.0 | | | 33,000 |
| Total | | | | | | | 574,000 | 100.0 | | | 574,000 |
| West Virginia: | | | | | | | | | | | |
| 2 | | | | | | | 18,744 | 98.7 | 256 | 1.3 | 19,000 |
| 4 | | | | | | | 21,000 | 100.0 | | | 21,000 |
| 6 | | | | | | | 73,000 | 100.0 | | | 73,000 |
| Total | | | | | | | 112,744 | 99.8 | 256 | .2 | 113,000 |
| North Carolina: | | | | | | | | | | | |
| 1 | | | | | | | 29,000 | 100.0 | | | 29,000 |
| 2 | | | | | | | 101,504 | 97.6 | 2,496 | 2.4 | 104,000 |
| 3 | | | | | | | 23,000 | 100.0 | | | 23,000 |
| 4 | | | | | | | 31,000 | 100.0 | | | 31,000 |
| 5 | | | | | | | 173,378 | 97.9 | 3,622 | 2.1 | 177,000 |
| 6 | | | | | | | 38,000 | 100.0 | | | 38,000 |
| 8 | | | | | | | 148,289 | 95.0 | 7,731 | 5.0 | 156,000 |
| 9 | | | | | | | 55,000 | 100.0 | | | 55,000 |
| Total | | | | | | | 599,151 | 97.7 | 13,849 | 2.3 | 613,000 |
| South Carolina: | | | | | | | | | | | |
| 1 | | | | | | | 115,000 | 100.0 | | | 115,000 |
| 2 | | | | | | | 23,000 | 100.0 | | | 23,000 |
| 3 | | | | | | | 42,000 | 100.0 | | | 42,000 |
| 4 | | | | | | | 50,000 | 100.0 | | | 50,000 |
| 5 | | | | | | | 47,000 | 100.0 | | | 47,000 |
| 8 | | | | | | | 13,000 | 100.0 | | | 13,000 |
| Total | | | | | | | 290,000 | 100.0 | | | 290,000 |

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|----------------------------------|--------------------|--------------|------------------------|--------------|--------------------|--------------|--------------------|--------------|---------|--------------|------------------|
| | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | |
| South Atlantic— Continued | | | | | | | | | | | |
| Georgia: | | | | | | | | | | | |
| 1 | | | | | | | 9,570 | 100.0 | | | 9,570 |
| 2 | | | | | | | 57,380 | 100.0 | | | 57,380 |
| 3 | | | | | | | 56,850 | 100.0 | | | 56,850 |
| 4 | | | | | | | 33,750 | 100.0 | | | 33,750 |
| 5 | | | | | | | 46,550 | 100.0 | | | 46,550 |
| 6 | | | | | | | 25,420 | 100.0 | | | 25,420 |
| 7 | | | | | | | 8,710 | 100.0 | | | 8,710 |
| 8 | | | | | | | 4,360 | 100.0 | | | 4,360 |
| 9 | | | | | | | 410 | 100.0 | | | 410 |
| Total | | | | | | | 243,000 | 100.0 | | | 243,000 |
| South Central: | | | | | | | | | | | |
| Kentucky: | | | | | | | | | | | |
| 1 | | | | | | | 54,660 | 100.0 | | | 54,660 |
| 2 | | | | | | | 174,320 | 100.0 | | | 174,320 |
| 3 | | | | | | | 107,563 | 98.9 | 1,167 | 1.1 | 108,730 |
| 4 | | | | | | | 31,490 | 100.0 | | | 31,490 |
| 5 | | | | | 4,071 | 3.4 | 114,308 | 96.5 | 61 | .1 | 118,440 |
| 6 | | | | | | | 24,360 | 100.0 | | | 24,360 |
| Total | | | | | 4,071 | .8 | 506,701 | 99.0 | 1,228 | .2 | 512,000 |
| Tennessee: | | | | | | | | | | | |
| 1 | | | | | | | 13,000 | 100.0 | | | 13,000 |
| 2 | | | | | | | 13,000 | 100.0 | | | 13,000 |
| 3 | | | | | | | 75,000 | 100.0 | | | 75,000 |
| 4 | | | | | | | 165,000 | 100.0 | | | 165,000 |
| 5 | | | | | | | 39,000 | 100.0 | | | 39,000 |
| 6 | | | | | | | 186,000 | 100.0 | | | 186,000 |
| Total | | | | | | | 491,000 | 100.0 | | | 491,000 |
| Alabama: | | | | | | | | | | | |
| 1 | | | | | | | 440 | 100.0 | | | 440 |
| 2 | | | | | | | 8,600 | 100.0 | | | 8,600 |
| 2A | | | | | | | 800 | 100.0 | | | 800 |
| 3 | | | | | | | 2,300 | 100.0 | | | 2,300 |
| 4 | | | | | | | 340 | 100.0 | | | 340 |
| 5 | | | | | | | 490 | 100.0 | | | 490 |
| 6 | | | | | | | 4,220 | 100.0 | | | 4,220 |
| 7 | | | | | | | 150 | 100.0 | | | 150 |
| 8 | | | | | | | 140 | 100.0 | | | 140 |
| 9 | | | | | | | 520 | 100.0 | | | 520 |
| Total | | | | | | | 18,000 | 100.0 | | | 18,000 |
| Mississippi: | | | | | | | | | | | |
| 1 | | | | | 1,925 | 11.7 | 14,475 | 88.3 | | | 16,400 |
| 2 | | | | | | | 1,750 | 100.0 | | | 1,750 |
| 3 | | | | | | | 150 | 100.0 | | | 150 |
| 4 | | | | | | | 6,300 | 100.0 | | | 6,300 |
| 5 | | | | | | | 200 | 100.0 | | | 200 |
| 6 | | | | | | | 200 | 100.0 | | | 200 |
| Total | | | | | 1,925 | 7.7 | 23,075 | 92.3 | | | 25,000 |
| Arkansas: | | | | | | | | | | | |
| 1 | | | | | | | 17,200 | 100.0 | | | 17,200 |
| 2 | | | | | 1,425 | 33.1 | 2,875 | 66.9 | | | 4,300 |
| 3 | | | | | | | 39,700 | 100.0 | | | 39,700 |
| 4 | | | | | | | 1,300 | 100.0 | | | 1,300 |
| 5 | | | | | | | 900 | 100.0 | | | 900 |
| 6 | | | | | 36 | 3.0 | 1,164 | 97.0 | | | 1,200 |
| 7 | | | | | | | 200 | 100.0 | | | 200 |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | 200 | 100.0 | | | 200 |
| Total | | | | | 1,461 | 2.2 | 63,539 | 97.8 | | | 65,000 |

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage | |
|---------------------------------------------------|--------------------|--------------|------------------------|--------------|--------------------|--------------|--------------------|--------------|---------|--------------|------------------|-----------|
| | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | Acreage | Per- cent | | |
| South Central— Continued Oklahoma: | | | | | | | | | | | | |
| 1 | | | | | 1,201,000 | 100.0 | | | | | 1,201,000 | |
| 2 | | | | | 1,713,521 | 96.0 | | 71,479 | 4.0 | | 1,785,000 | |
| 3 | | | | | 47,674 | 34.8 | | 89,326 | 65.2 | | 137,000 | |
| 4 | | | | | 754,000 | 100.0 | | | | | 754,000 | |
| 5 | | | | | 533,920 | 92.9 | | 41,080 | 7.1 | | 575,000 | |
| 6 | | | | | 7,210 | 42.4 | | 9,799 | 57.6 | | 17,000 | |
| 7 | | | | | 706,000 | 100.0 | | | | | 706,000 | |
| 8 | | | | | 25,160 | 83.9 | | 4,840 | 16.1 | | 30,000 | |
| 9 | | | | | | | | 1,000 | 100.0 | | 1,000 | |
| Total | | | | | 4,988,485 | 95.8 | | 217,515 | 4.2 | | 5,206,000 | |
| Texas: | | | | | | | | | | | | |
| 1-N | | | | | 3,196,000 | 100.0 | | | | | 3,196,000 | |
| 1-S | | | | | 94,000 | 100.0 | | | | | 94,000 | |
| 2 | | | | | 589,300 | 100.0 | | | | | 589,300 | |
| 3 | | | 300 | 0.2 | 154,102 | 83.3 | | 30,498 | 16.5 | | 184,900 | |
| 4 | | | 8,925 | 2.8 | 103,847 | 32.2 | | 209,228 | 65.0 | | 322,090 | |
| 7 | | | 6,125 | 10.6 | 31,475 | 54.5 | | 20,200 | 34.9 | | 57,800 | |
| 8 | | | 2,625 | 43.8 | | | | 3,000 | 50.0 | 375 | 6,000 | |
| Total | | | 17,975 | .4 | 4,168,724 | 93.7 | | 262,926 | 5.9 | 375 (*) | 4,450,000 | |
| Western: Montana: | | | | | | | | | | | | |
| 1 | 25,069 | 27.5 | | | 39,094 | 43.0 | | 3,965 | 4.4 | 22,872 | 25.1 | 91,000 |
| 2 | 955,297 | 64.6 | 13,269 | .9 | 510,434 | 34.5 | | | | | 1,479,000 | |
| 3 | 1,396,517 | 96.2 | 17,057 | 1.2 | 37,426 | 2.6 | | | | | 1,451,000 | |
| 5 | 212,393 | 33.8 | | | 416,595 | 66.2 | | | | 12 (*) | 629,000 | |
| 7 | 41,524 | 43.7 | | | 49,942 | 52.6 | | | 3,534 | 3.7 | 95,000 | |
| 8 | 148,878 | 49.5 | | | 148,673 | 49.4 | | 1,000 | .3 | 2,449 | 301,000 | |
| 9 | 235,533 | 88.1 | | | 31,467 | 11.8 | | | | | 267,000 | |
| Total | 3,015,211 | 69.9 | 30,326 | .7 | 1,233,631 | 28.6 | | 4,965 | .1 | 28,867 | .7 | 4,313,000 |
| Idaho: | | | | | | | | | | | | |
| 1 | 14,766 | 5.0 | | | 21,329 | 7.3 | | 8,064 | 2.8 | 247,441 | 84.9 | 291,600 |
| 7 | | | | | 5,771 | 9.2 | | 1,330 | 2.1 | 55,599 | 88.7 | 62,700 |
| 8 | 1,370 | 1.2 | | | 42,987 | 36.2 | | | | 74,343 | 62.6 | 118,700 |
| 9 | 37,790 | 6.5 | | | 325,625 | 55.8 | | 4,099 | .7 | 215,486 | 37.0 | 583,000 |
| Total | 53,926 | 5.1 | | | 395,712 | 37.5 | | 13,493 | 1.3 | 592,869 | 56.1 | 1,056,000 |
| Wyoming: | | | | | | | | | | | | |
| 1 | 9,292 | 76.8 | 1,608 | 13.3 | 1,200 | 9.9 | | | | | 12,100 | |
| 2 | 36,405 | 44.5 | 595 | .7 | 44,412 | 54.2 | | 487 | .6 | | 81,900 | |
| 3 | 713 | 15.5 | | | 689 | 15.0 | | 111 | 2.4 | 3,087 | 4,600 | |
| 4 | 1,500 | 41.7 | | | 2,100 | 58.3 | | | | | 3,600 | |
| 5 | 39,477 | 24.7 | 4,323 | 2.7 | 116,000 | 72.6 | | | | | 159,800 | |
| Total | 87,387 | 33.4 | 6,526 | 2.5 | 164,402 | 62.7 | | 598 | .2 | 3,087 | 1.2 | 262,000 |
| Colorado: | | | | | | | | | | | | |
| 1 | 9,962 | 25.1 | | | 27,210 | 68.5 | | 180 | .4 | 2,388 | 6.0 | 39,740 |
| 2 | 77,257 | 16.8 | | | 381,882 | 83.1 | | 78 (*) | | 243 | .1 | 459,460 |
| 6 | 44,930 | 5.4 | | | 780,520 | 94.6 | | | | | 825,450 | |
| 7 | 19,679 | 33.2 | | | 34,846 | 58.7 | | 204 | .3 | 4,601 | 7.8 | 59,330 |
| 8 | 18,765 | 90.8 | | | 460 | 2.2 | | | | 1,445 | 7.0 | 20,670 |
| 9 | 8,730 | 4.3 | | | 194,620 | 95.7 | | | | | 203,350 | |
| Total | 179,323 | 11.2 | | | 1,419,538 | 88.3 | | 462 (*) | | 8,677 | .5 | 1,608,000 |
| New Mexico: | | | | | | | | | | | | |
| 1 | 14,552 | 47.6 | | | 16,048 | 52.4 | | | | | 30,600 | |
| 3 | 8,036 | 2.7 | | | 289,864 | 97.3 | | | | | 297,900 | |
| 7 | 592 | 20.2 | | | 1,309 | 44.7 | | | | 1,029 | 35.1 | 2,930 |
| 9 | | | | | | | | | | 2,570 | 100.0 | 2,570 |
| Total | 23,180 | 6.9 | | | 307,221 | 92.0 | | | | 3,599 | 1.1 | 334,000 |

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by each of the classes of wheat grown in each State in 1944—Continued

| Division, State, and district | Hard red spring | | Durum and red durum | | Hard red winter | | Soft red winter | | White | | Total acreage |
|-------------------------------|-----------------|----------|---------------------|----------|-----------------|----------|-----------------|----------|-----------|----------|---------------|
| | Acreage | Per cent | Acreage | Per cent | Acreage | Per cent | Acreage | Per cent | Acreage | Per cent | |
| Western—Con. Arizona: | | | | | | | | | | | |
| 2----- | 123 | 1.3 | | | 5,496 | 59.8 | | | 3,581 | 38.9 | 9,200 |
| 5----- | | | | | | | | | 12,100 | 100.0 | 12,100 |
| 7----- | | | | | | | | | 1,000 | 100.0 | 1,000 |
| 9----- | | | | | | | | | 3,700 | 100.0 | 3,700 |
| Total..... | 123 | .5 | | | 5,496 | 21.1 | | | 20,381 | 78.4 | 26,000 |
| Utah: | | | | | | | | | | | |
| 1----- | | | | | 102,608 | 57.2 | 4,143 | 2.3 | 72,549 | 40.5 | 179,300 |
| 5----- | | | | | 39,820 | 53.7 | | | 34,280 | 46.3 | 74,100 |
| 6----- | 192 | .7 | | | 13,032 | 48.6 | | | 13,576 | 50.7 | 26,800 |
| 7----- | | | | | 2,187 | 18.5 | | | 9,613 | 81.5 | 11,800 |
| Total..... | 192 | .1 | | | 157,647 | 54.0 | 4,143 | 1.4 | 130,018 | 44.5 | 292,000 |
| Nevada: | | | | | | | | | | | |
| 1----- | 610 | 4.1 | | | 3,253 | 21.7 | | | 11,097 | 74.2 | 14,960 |
| 3----- | | | | | 200 | 8.9 | | | 2,060 | 91.1 | 2,260 |
| 8----- | | | | | 50 | 6.4 | | | 730 | 93.6 | 780 |
| Total..... | 610 | 3.4 | | | 3,503 | 19.5 | | | 13,887 | 77.1 | 18,000 |
| Washington: | | | | | | | | | | | |
| 1----- | 3,487 | 22.9 | | | | | 10,644 | 70.1 | 1,069 | 7.0 | 15,200 |
| 2----- | | | | | 47,726 | 20.4 | 13,886 | 6.0 | 171,888 | 73.6 | 233,500 |
| 3----- | 4,117 | 2.4 | | | 2,936 | 1.7 | 5,382 | 3.2 | 156,965 | 92.7 | 169,400 |
| 5----- | 2,397 | .2 | | | 506,115 | 39.0 | 2,508 | .2 | 785,480 | 60.6 | 1,296,500 |
| 9----- | 5,839 | .7 | | | 118,932 | 14.5 | 38,440 | 4.7 | 659,189 | 80.1 | 822,400 |
| Total..... | 15,840 | .6 | | | 675,709 | 26.6 | 70,860 | 2.8 | 1,774,591 | 70.0 | 2,537,000 |
| Oregon: | | | | | | | | | | | |
| 1----- | 7,579 | 8.0 | | | | | 1,411 | 1.5 | 85,280 | 90.5 | 94,270 |
| 2----- | | | | | 73,938 | 16.2 | 340 | .1 | 380,362 | 83.7 | 454,640 |
| 3----- | 678 | .2 | | | 4,344 | 1.3 | | | 322,778 | 98.5 | 327,800 |
| 7----- | | | | | | | | | 11,490 | 100.0 | 11,490 |
| 8----- | 1,557 | 1.8 | | | 39,197 | 44.6 | | | 47,046 | 53.6 | 87,800 |
| Total..... | 9,814 | 1.0 | | | 117,479 | 12.0 | 1,751 | .2 | 846,956 | 86.8 | 976,000 |
| California: | | | | | | | | | | | |
| 1----- | | | | | | | | | 1,500 | 100.0 | 1,500 |
| 2----- | | | | | 1,252 | 5.5 | | | 21,348 | 94.5 | 22,600 |
| 3----- | | | | | 1,758 | 11.1 | | | 14,142 | 88.9 | 15,900 |
| 4----- | | | | | | | | | 144,400 | 100.0 | 144,400 |
| 5----- | | | | | | | | | 126,600 | 100.0 | 126,600 |
| 5A----- | | | | | | | | | 220,100 | 100.0 | 220,100 |
| 6----- | | | | | | | | | 11,300 | 100.0 | 11,300 |
| 8----- | | | | | | | | | 53,600 | 100.0 | 53,600 |
| Total..... | | | | | 3,010 | .5 | | | 592,990 | 99.5 | 596,000 |

TABLE 6.—Estimated acreage and percentage of the total wheat area of the United States occupied by each of the 5 classes of wheat

| Class | Total wheat area occupied | | | | | | 1939 | 1944 |
|--------------------------|---------------------------|--------------|--------------|--------------|--------------|--------------|------------------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | | |
| Hard red spring----- | Percent 24.2 | Percent 22.4 | Percent 22.0 | Percent 23.2 | Percent 20.9 | Percent 24.0 | Acres 13,330,648 | Acres 15,765,582 |
| Durum ¹ ----- | 6.4 | 8.2 | 9.4 | 4.6 | 5.3 | 3.3 | 3,372,405 | 2,179,258 |
| Hard red winter----- | 32.0 | 41.4 | 43.5 | 44.6 | 47.6 | 46.8 | 30,456,919 | 30,709,456 |
| Soft red winter----- | 30.1 | 22.1 | 17.7 | 20.9 | 19.6 | 18.2 | 12,552,634 | 11,937,179 |
| White----- | 7.3 | 5.9 | 7.4 | 6.7 | 6.6 | 7.7 | 4,198,394 | 5,092,525 |
| Total..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 63,911,000 | 65,684,000 |

¹Includes durum and red durum classes.

Hard red spring wheat as a class is grown in all but the South Atlantic and South Central divisions, but principally in the North Central States. In 1944 it was reported in 23 States and was the leading class in Minnesota, North Dakota, South Dakota, and Montana.

Durum wheat is grown in the same general divisions, but principally in North Dakota, South Dakota, and Minnesota. A small acreage of durum is grown as far south as Texas. It is not a leading class of wheat in any State, occupying 17.7 percent of the acreage in North Dakota, 7.9 percent of that in South Dakota, 4.8 percent of that in Minnesota, and 2.4 percent of that in Wyoming. In addition to the above States some durum wheat was reported in Montana, Nebraska, Wisconsin, Iowa, Missouri, and Texas. In all, durum wheat was grown in 10 States in 1944.

Hard red winter wheat was reported being grown in all divisions except the South Atlantic, and its total acreage was twice that of any other class of wheat. It is grown principally in the North Central and South Central States and is the leading class of wheat in Kansas, Nebraska, Oklahoma, Texas, Wisconsin, Iowa, Wyoming, Colorado, New Mexico, and Utah. It was reported in 30 States in 1944, although the greatest acreages occurred in Kansas, Nebraska, Oklahoma, Texas, and Colorado.

Soft red winter wheat is grown in all divisions. It is the leading class of wheat in New Jersey, Pennsylvania, Ohio, Illinois, Indiana, Missouri, Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Kentucky, Tennessee, Alabama, and Mississippi. In many of the Eastern States it is practically the only class of wheat grown. The largest acreages were estimated for Ohio, Missouri, Indiana, Illinois, and Pennsylvania. A total of 33 States reported soft red winter wheat in 1944.

White wheat is also grown in all divisions, but chiefly in the far Western States and in New York and Michigan. Only a very small acreage was reported from the South Central States. It is the leading class of wheat in New York and Michigan in the East and Idaho, Washington, Oregon, California, Arizona, and Nevada in the West. The largest acreages were in Washington, Oregon, Michigan, California, Idaho, and New York.

The estimated acreage and percentage of the total wheat area occupied by each class by 5-year intervals since 1919 are shown in table 6. These acreages were determined by totaling the estimated acreages of the varieties in each class. These data indicate that from 1939 to 1944 there was a decrease in the acreage of durum, hard red winter, and soft red winter and an increase in hard red spring and white wheats. The greatest change was in hard red spring which increased from 20.9 to 24.0 percent of the total. Since 1929 the percentage of durum has gradually decreased, and in 1944 this class occupied only 3.3 percent of the total. The percentage of hard red winter wheat increased gradually from 1919 until 1939 but has shown a slight decrease during the last 5 years. The acreage of soft red winter wheat has decreased slightly since 1934. In the case of white wheat, there has been no marked change in the relative importance of the class.

White wheat occupied 5.9 percent of the total wheat area in 1924, and in 1944 it was 7.7 percent of the total. These two figures represent the highest and lowest percentage recorded for this class of wheat. The shifts in the relative proportion of the different classes of wheat are caused largely by changes in the acreage of all wheat in different areas where the particular classes are grown rather than by changes in the classes of wheat grown within a locality.

HARD RED SPRING VARIETIES

The hard red spring varieties are grown principally in the north-central part of the United States, their production extending into the prairie Provinces of Canada. There the winters are too severe for production of the present varieties of winter wheat. Varieties of spring wheat also are grown in certain parts of Wisconsin, Iowa, Illinois, and as far east as Maine. In these States, as well as in Nebraska, Kansas, Colorado, and Wyoming, they are frequently used to replace winter wheat that has failed, due to winterkilling, drought, soil blowing, or other causes. Hard red spring wheat also occupies a limited acreage in the Pacific Northwest. The distribution of the acreage of hard red spring wheat in 1944 is shown in figure 3.

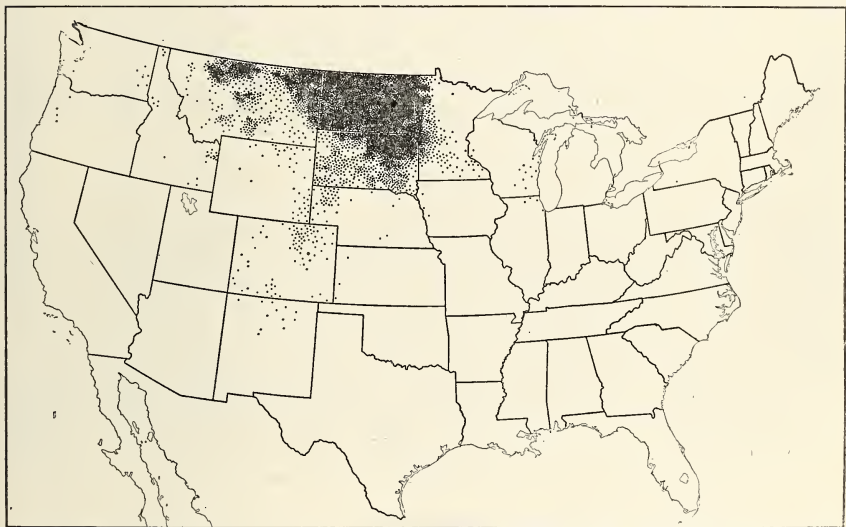


FIGURE 3.—Distribution of hard red spring wheat in 1944. Each dot represents 2,000 acres. Estimated area, 15,765,582 acres.

In 1944, 40 varieties of hard red spring wheat were reported. They are listed in table 7 in the order of the estimated acreage. The percentage of the total acreage for the class occupied by each variety in 1919, 1924, 1929, 1934, 1939, and 1944 are also shown.

TABLE 7.—Percentage of the total hard red spring wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1944

[The asterisk (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|----------------------------------------------|-----------------------|-------|-------|-------|-------|-------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Thatcher..... | | | | (*) | 41.6 | 28.3 | 4,450,254 |
| Rival..... | | | | | (*) | 25.8 | 4,050,900 |
| Ceres..... | | | 2.6 | 31.5 | 27.0 | 10.3 | 1,622,762 |
| Marquis..... | 71.4 | 85.4 | 87.4 | 60.2 | 24.3 | 9.7 | 1,529,428 |
| Regent..... | | | | | | 8.5 | 1,333,725 |
| Pilot..... | | | | | (*) | 7.7 | 1,217,009 |
| Renown..... | | | | | .4 | 3.5 | 542,329 |
| Vesta..... | | | | | | 2.5 | 386,057 |
| Reward..... | | | .1 | 1.6 | 1.5 | 1.5 | 236,943 |
| Komar..... | | | | .1 | .8 | .4 | 61,951 |
| Supreme..... | | | 2.2 | 1.3 | .8 | .3 | 48,509 |
| Carleeds..... | | | | | .7 | .3 | 47,526 |
| Great Northern..... | | | | | .1 | .2 | 30,506 |
| Premier..... | | | | | | .2 | 27,543 |
| Apex..... | | | | | (*) | .2 | 22,884 |
| Progress..... | | (*) | .2 | .7 | .4 | .1 | 18,677 |
| Mida..... | | | | | | .1 | 18,552 |
| Marvel..... | | | (*) | .1 | .3 | .1 | 17,000 |
| Marquillo..... | | | .1 | 1.0 | 1.1 | .1 | 16,958 |
| Java..... | .1 | .1 | .1 | .1 | .2 | .1 | 5,293 |
| Red Bobs..... | | .1 | .1 | .1 | .1 | .1 | 5,248 |
| Huston..... | .1 | .2 | .1 | .1 | .1 | (*) | 5,106 |
| Sturgeon..... | | | | (*) | (*) | (*) | 5,090 |
| Kota..... | | 4.2 | 1.9 | .4 | .1 | (*) | 4,097 |
| Ruby..... | | 2.9 | 1.4 | .5 | (*) | (*) | 3,819 |
| Canus..... | | | | | | (*) | 3,348 |
| Preston..... | 13.6 | 3.5 | 2.1 | .9 | .1 | (*) | 2,700 |
| Newthatch..... | | | | | | (*) | 2,217 |
| Kinney..... | .2 | .1 | .1 | .1 | | (*) | 1,732 |
| Relliance..... | | | (*) | (*) | | (*) | 1,659 |
| Hope..... | | | (*) | .1 | .2 | (*) | 1,412 |
| Garnet..... | | | .1 | .1 | (*) | (*) | 990 |
| Dixon..... | (*) | | (*) | .3 | (*) | (*) | 657 |
| Haynes Bluestem..... | 9.5 | 1.2 | .6 | .2 | (*) | (*) | 544 |
| Humpback..... | .2 | (*) | .1 | (*) | | (*) | 538 |
| Red Fife..... | 4.6 | 1.6 | .2 | .1 | (*) | (*) | 445 |
| Kitchener..... | | (*) | (*) | (*) | (*) | (*) | 275 |
| Stanley..... | | | | | | (*) | 235 |
| Mercury..... | | | | | | (*) | 70 |
| Henry..... | | | | | | (*) | 42 |
| Sea Island..... | .1 | .1 | .1 | (*) | .1 | | |
| Ladoga..... | .1 | (*) | .1 | (*) | .1 | | |
| Coronation..... | | | | | (*) | | |
| Power..... | .1 | .5 | .1 | .1 | (*) | | |
| Varieties not reported in 1939 and 1944..... | (*) | .1 | .3 | .4 | | | |
| Total reported..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 15,725,030 |
| Varieties not reported..... | | | | | | | 40,552 |
| Total..... | | | | | | | 15,765,582 |

THATCHER

Thatcher increased from 1,823 acres in 1934, when it was released by the Minnesota Agricultural Experiment Station, to 5,524,631 acres in 1939 to become the leading variety of spring wheat. It retained that position in 1944, although its acreage had dropped to 4,450,254 acres, or 13.2 percent. It constituted 28.3 percent of the acreage of this class. It was reported in 14 States—North Dakota, South Dakota, Montana, and Minnesota having the largest acreage. The rapid increase was due largely to resistance to stem rust, while the decrease in recent years has been due to injury from leaf rust. In the United

States the acreage of Thatcher has decreased in Minnesota and the eastern Dakotas but increased in Montana, Wyoming, and Colorado. In Canada, during the same 5-year period, it decreased in Manitoba but increased in Saskatchewan and Alberta. It has been estimated by the Searle Grain Company⁴ that 12,142,000 acres were grown in Canada in 1944. This is an increase of 3,163,000 acres over its 1939 acreage. This increase has been largely in Saskatchewan. For the United States and Canada combined this is a total of 16,600,000 acres, which is a gain of more than 2 million acres. The distribution of Thatcher wheat in the United States in 1944 is shown in figure 4.

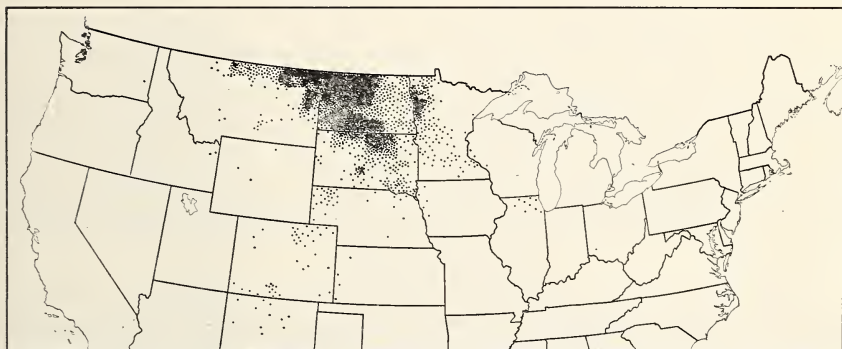


FIGURE 4.—Distribution of Thatcher in 1944. Each dot represents 1,000 acres. Estimated area, 4,450,254 acres.

RIVAL

Rival increased from 1,011 acres in 1939, when it was distributed by the North Dakota Agricultural Experiment Station, to 4,050,900 acres in 1944 to become the second most widely grown variety of its class. It replaced Thatcher in many places because of its greater resistance to leaf rust and its higher yield. As it has a tendency to shatter in some seasons, Rival is grown more in the eastern section of the spring-wheat region. The map shows that Rival was grown in four States in 1944 (fig. 5) and occupied 25.8 percent of the class acreage.

CERES

Ceres ranked third in acreage in 1944, having decreased from 27.0 to 10.3 percent of the class, or nearly 2 million acres from 1934. It was largely replaced by varieties more resistant to stem rust, particularly Thatcher, Rival, Pilot, and Regent. Ceres was developed at the North Dakota Agricultural Experiment Station and distributed to farmers in 1926. By 1929 the estimated area was 347,632 acres, or 2.6 percent of the class. In 1934 it had increased to 4,453,487 acres, when it ranked second only to Marquis. By 1939 the acreage had shifted westward

⁴ SEARLE GRAIN COMPANY, LIMITED. GRAIN MARKET FEATURES: THATCHER STILL FURTHER INCREASES ITS LEAD. Searle Grain Co. Pam. 14 (14): [6] pp., with supplement. 1944.

with a marked decrease in eastern North Dakota and in Minnesota and an increase in South Dakota and Montana. In 1944 Ceres had largely disappeared from the eastern section of North Dakota. The distribution of Ceres wheat in 1944 is shown in figure 6. This variety was severely damaged by stem rust in eastern South Dakota in 1944 and in the future should be confined to sections where stem and leaf rust do not occur. In the drier areas of Montana Ceres has generally outyielded the newer rust-resistant varieties, and because of its heavy test weight the Montana acreage has decreased only slightly.

MARQUIS

Marquis dropped from third to fourth place in rank during the 5-year period from 1939 to 1944. From 1919 to 1934 Marquis was the leading variety. Its acreage was probably first surpassed by Ceres between 1935 and 1938, by Thatcher in 1939, and by Rival in 1944. Owing to the severe stem rust epidemics of 1935, 1937, and 1938 the acreage of both Ceres and Marquis decreased rapidly, Thatcher and newer resistant varieties taking their place. In 1944 Marquis was grown in 14 States on an estimated area of 1,529,428 acres, as shown in figure 7. This was a decrease from 24.3 to 9.7 percent of the acreage of the class.

There was a sharp reduction in the acreage of Marquis in North Dakota, South Dakota, and Montana during the last 5-year period. In the three prairie Provinces of Canada Marquis also lost first place to Thatcher. In 1944 the Canadian acreage of Marquis was about 3,500,000 acres.

REGENT

Regent was developed by the Canadian Department of Agriculture at the Dominion Rust Research Laboratory, Winnipeg, Manitoba. It

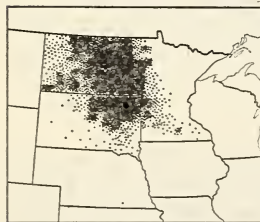


FIGURE 5.—Rival.
4,050,900 acres.

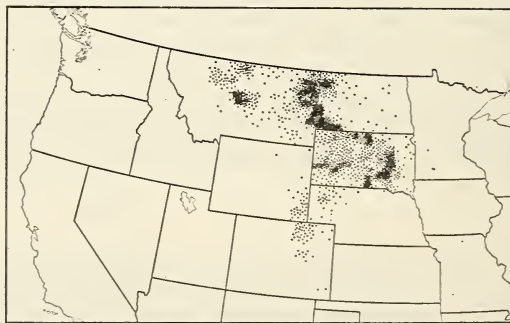


FIGURE 6.—Ceres.
1,622,762 acres.

was released for growing by Canadian farmers in 1939 and was first grown in the United States in 1940. It is an awnless stiff-strawed variety of excellent quality and is best adapted to the heavier soils and where lodging is a frequent factor. During the 5 years from 1940 to 1944 the acreage of Regent in the United States increased to 1,333,725



FIGURE 7.—Marquis.
1,529,428 acres.

acres—8.5 percent of the acreage of the class—as shown in figure 8. It is grown in four States, principally North Dakota. In Canada the acreage of Regent totaled about 1,120,000 acres in 1944, principally in Manitoba, where it ranks second only to Thatcher.

PILOT

Pilot was developed by the United States Department of Agriculture in cooperation with State agricultural experiment stations of the spring-wheat region. It was distributed for growing in North Dakota, South Dakota, and Montana in 1939, in which year the survey showed 1,993 acres. Pilot is bearded and resistant to both stem and leaf rust. It does not have so strong a straw as Ceres, but it is a high-yielding variety having excellent milling and baking properties. An improved strain, Pilot 13, was distributed in 1941 and 1942. The increase from both lots was rapid, and in 1944 the estimated acreage, as shown in figure 9, was 1,217,009 acres. This may be somewhat lower than its 1943 acreage, as with the favorable seasons some of the Pilot acreage in the eastern section had been replaced by stronger strawed wheats. Westward, however, there had been a steady increase in the acreage of Pilot. The map shows it to be grown in four States—North Dakota, South Dakota, Montana, and Minnesota. The acreage is 7.7 percent of the class, ranking sixth among the varieties grown.

RENOWN

Renown, developed by the Canadian Department of Agriculture at the Dominion Rust Research Laboratory, Winnipeg, Manitoba, is early, awnless, and resistant to rust and smut. It was distributed to

Canadian growers in 1937 and has been grown in the United States since 1938. In 1939 there was an estimated area of 51,509 acres, and in 1944, as shown in figure 10, it was 542,329 acres. This acreage may be somewhat less than that grown in 1943 or even 1942, as some of the acreage of Renown has been replaced by Regent and other newer wheats. It increased from tenth to seventh in rank during the 5-year period, however, and made up 3.5 percent of the acreage of the class. The acreage is in three States, principally North Dakota. In Canada the 1944 acreage of Renown was about 700,000 acres, principally in Manitoba, where it ranks third among the varieties grown. In the United States, Renown should be replaced by Regent or other newer varieties.

VESTA

Vesta was developed by the North Dakota Agricultural Experiment Station and was distributed in 1942. It is bearded and resistant to stem rust, but it is rather susceptible to leaf rust, however, and has weak straw. Its quality also is not entirely satisfactory. With the distribution of Mida wheat in 1944, therefore, Vesta is not now recommended. The acreage of Vesta increased in western North Dakota and spread to South Dakota and Montana, where its estimated area, as shown in figure 11, equaled 386,057 acres. This makes up 2.5 percent of the acreage of the class, ranking eighth among the varieties grown.

REWARD

Reward was developed by the Canadian Department of Agriculture and distributed in 1927. It was first grown in the United States in 1928; in 1929 it was reported grown on 6,520 acres, principally in South Dakota. In 1934 it was the third most important variety of hard red spring wheat, although it occupied only 230,952 acres, or 1.6 percent of the class. Because of stem rust injury the acreage of Reward dropped to 197,308 in 1939, but it increased slightly by 1944

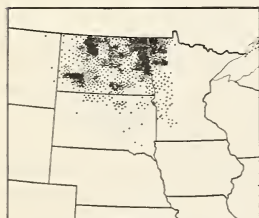


FIGURE 8.—Regent.
1,333,725 acres.

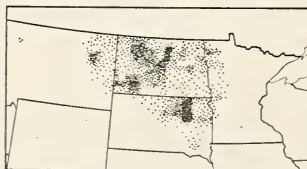


FIGURE 9.—Pilot.
1,217,009 acres.

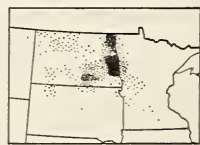


FIGURE 10.—Renown.
542,329 acres.

when, as shown in figure 12, its area was estimated at 236,943 acres. The increase has occurred in Montana and to a small extent in Colorado where rust does not occur usually and an early wheat is desired. The acreage of Reward decreased sharply in North Dakota and South Dakota, where rust damage had been severe, but increased in Montana where its early maturity had a decided advantage during the hot,

dry seasons that prevailed. Another advantage of Reward is its attractive dark plump kernels. The 1944 acreage of Reward in Canada was about 200,000, principally in Alberta.

OTHER VARIETIES OF HARD RED SPRING WHEAT

The discussion so far has been confined to 9 varieties that have an estimated area of 200,000 acres or more. Of the remaining 35 listed in table 7, 23 decreased in acreage, which includes 4 that were completely eliminated. The acreage of the following increased from 1939 to 1944: Great Northern, Premier, Apex, Mida, Canus, Newthatch, Kinney, Reliance, Humpback, Stanley, Mercury, and Henry. Three of these—Kinney, Reliance, and Humpback—are old varieties that had been grown previously, but were not reported in 1939. The other 9 are new or reported grown for the first time in the 1944 survey. Of these, Mida, Newthatch, and Henry are considered to be promising by agronomists of the agricultural experiment stations of the region. In addition, Cadet wheat, not listed in the survey but increased in 1944 and distributed in 1945, is approved.

Of 45 hard red spring wheats, only 10 are recommended for the northern hard spring wheat region of the United States. In the order of their 1944 acreages these varieties are Thatcher, Rival, Ceres, Marquis, Regent, Pilot, Reward, Mida, Newthatch, and Cadet.

DURUM AND RED DURUM VARIETIES

The durum and red durum varieties are grown principally in eastern North Dakota and South Dakota and occupy a part of the same territory in which the hard red spring wheats are grown. The 1944 acreage was estimated at 2,179,258, as compared with 3,372,405 in 1939. The decrease of 2 percent in the durum wheat acreage of the United States during the 5-year period is due to several reasons, but princi-

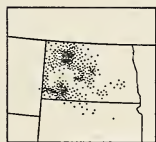


FIGURE 11.—Vesta.
386,057 acres.

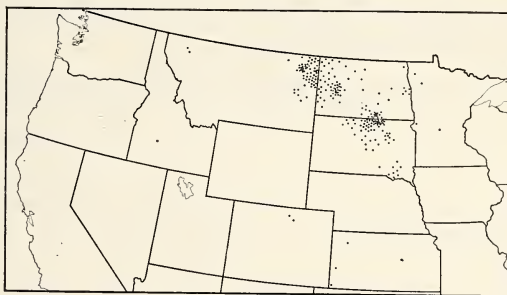


FIGURE 12.—Reward.
236,943 acres.

pally to the development of rust-resistant varieties of hard red spring wheat.

Nine varieties were reported grown in 1944. The estimated acreage in 1944 and the percentage of the total durum and red durum area occu-

pied by the varieties by 5-year intervals since 1919 are given in table 8. The distribution of all durum and red durum wheat is shown in figure 13.

The identity of the varietal name of much of the durum and red durum wheat grown is not known to the growers, for the word "durum"

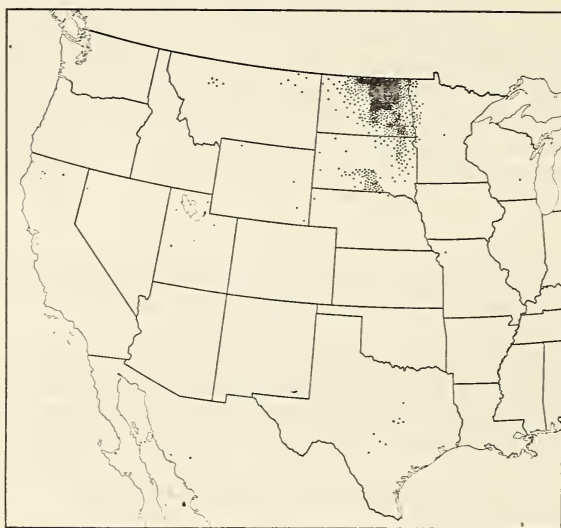


FIGURE 13.—Durum and red durum.
2,179,258 acres.

is considered by many a varietal name. For this reason, nearly half of the total durum acreage was shown as "Durum (varieties not reported)."

TABLE 8.—Percentage of the total durum and red durum wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1944

(The asterisk (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class)

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|---------------------------------------------------|-----------------------|-------|-------|-------|-------|-------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Durum (varieties not reported) ¹ | 96.8 | 74.5 | 60.3 | 41.7 | 44.6 | 46.8 | 1,016,948 |
| Mindum..... | | .3 | 5.5 | 15.9 | 22.5 | 31.2 | 678,486 |
| Pentad..... | 1.1 | 8.2 | 17.3 | 11.1 | 18.3 | 9.1 | 196,405 |
| Kubanka..... | 1.2 | 11.6 | 12.5 | 24.6 | 12.8 | 8.3 | 180,217 |
| Peliss..... | .1 | .1 | .1 | .9 | .4 | 3.5 | 77,022 |
| Stewart..... | | | | | | .6 | 12,389 |
| Carleton..... | | | | | | .3 | 6,113 |
| Aeme..... | | 1.6 | 1.3 | 3.8 | .1 | .1 | 1,786 |
| Kahla..... | .5 | 1.1 | .5 | .1 | (*) | .1 | 1,063 |
| Arnautka..... | .3 | .6 | .3 | .7 | .2 | (*) | 761 |
| Golden Ball (Viking)..... | | | | | .9 | | |
| Nodak..... | | (*) | .6 | .6 | .1 | | |
| Monad..... | | 2.0 | 1.6 | .6 | .1 | | |
| Total reported..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 2,171,190 |
| Varieties not reported..... | | | | | | | 8,068 |
| Total..... | | | | | | | 2,179,258 |

¹ Includes durum and red durum classes.

MINDUM

Mindum ranked first among the durum varieties, surpassing Kubanka in 1939 and Pentad in 1934. The distribution of Mindum in 1944 is shown in figure 14. It was grown principally in eastern North Dakota, in the Red River Valley of Minnesota, and in northeastern South Dakota. In 1944 the estimated area was 678,486 acres, or 31.2 percent of the total durum acreage. In 1939 it was 756,329 acres, although the percentage was smaller (22.5 percent). The increase in the acreage of Mindum is due to its high yield and good quality for macaroni. Millers prefer it to older varieties for the manufacture of semolina, a coarse granular flour from which macaroni and other edible pastes are made.

PENTAD

Pentad (red durum) ranked second in acreage in 1944 with 196,405, or 9.1 percent of the total durum wheat acreage. This is less than a third of the 1939 acreage, which was estimated at 613,082, or 18.3 percent. This decrease in the acreage of Pentad is due to the growing of rust-resistant varieties of hard red spring wheat. Pentad has been grown from late seeding in the worst rust sections and is used largely for feed, as it is not suited for the manufacture of semolina because of its red color. The distribution of Pentad in 1944 is shown in figure 15.

With the development and growing of the new rust-resistant durum

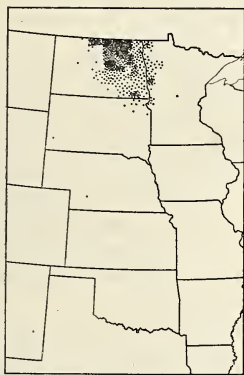


FIGURE 14.—Mindum.
678,486 acres.

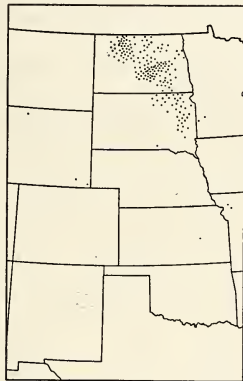


FIGURE 15.—Pentad.
196,405 acres.

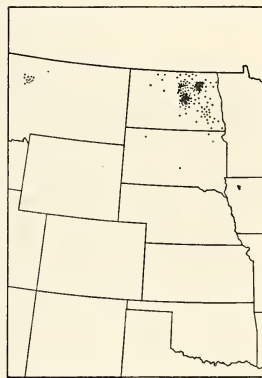


FIGURE 16.—Kubanka.
180,217 acres.

varieties. Stewart and Carleton, the acreage of Pentad should be further reduced; it is not now a recommended variety.

KUBANKA

Although Kubanka was for many years the best known durum variety, much of its acreage is unidentified and has been reported merely as durum. The distribution of the identified Kubanka acreage in 1944 is shown in figure 16. The estimated acreage of Kubanka decreased from 431,630 in 1939, or from 12.8 to 8.3 percent of the class

total. The decrease is due partly to the increase of hard red spring wheats, but partly to the increase of Mindum and the new rust-resistant durum wheats, Stewart and Carleton.

OTHER DURUM VARIETIES

Of the durum varieties grown on less than 100,000 acres in 1944, Peliss (Algerian) increased from 30,000 to 77,022 acres, or from 0.4 to 3.5 percent of the class. This is grown in South Dakota. Stewart and Carleton are rust-resistant durum wheats developed by the United States Department of Agriculture in cooperation with the North Dakota Agricultural Experiment Station. They were distributed in 1943. Stewart increased to 12,389 acres in 1944 and Carleton to 6,113. Stewart is the better yielding in the higher and drier sections, while Carleton is stiff-strawed and therefore better adapted to the lower and richer valley sections. Both were developed from Mindum³ × Vernal (emmer) backcrosses and are equal to or better than Mindum in quality. The acreage of three additional varieties—Acme, Kahla, and Arnautka—remained about the same as in 1939, while Golden Ball, Nodak, and Monad were not reported as grown in 1944.

Of the 12 durum varieties shown in table 8, only Mindum, Kubanka, Stewart, and Carleton are recommended for growing. The new rust-resistant Stewart and Carleton wheats should replace most of the northern durum acreage and regain some of the area lost to hard red spring wheat during recent years.

HARD RED WINTER VARIETIES

The hard red winter varieties are grown chiefly in the central and south sections of the Great Plains region in Nebraska, Kansas, Colorado, Oklahoma, and Texas. Smaller acreages occur in Illinois, Indiana, Iowa, Mississippi, Montana, Washington, and Oregon and in some other States. There is no acreage in the South Atlantic States. The distribution of this class in 1944 is shown in figure 17.

The relative acreage of hard red winter wheat has gradually increased from 32.0 percent of all wheat in 1919 to 47.6 percent in 1939 and then slightly decreased to 46.8 percent in 1944. The class continues to be the most important in number of acres grown.

The number of commercial varieties has increased from 8 in 1919 to 37 in 1939 and to 44 in 1944. The acreage of Superhard was again combined with that of Blackhull in 1944, as was done in 1939, because it has become impossible to keep these varieties separate. Varieties reported for the first time in 1944 are Red Chief, Triumph, Comanche, Cache, Pawnee, Reliant, Marmin, Wasatch, Kanhull, and Chequamegon. Three varieties, Eagle Chief, Enid, and Cooperatorka, were not reported in 1944, although grown in previous years. The estimated acreage in 1944 and the percentage of the total hard red winter wheat acreage occupied by each of the commercial varieties by 5-year intervals since 1919 are shown in table 9.

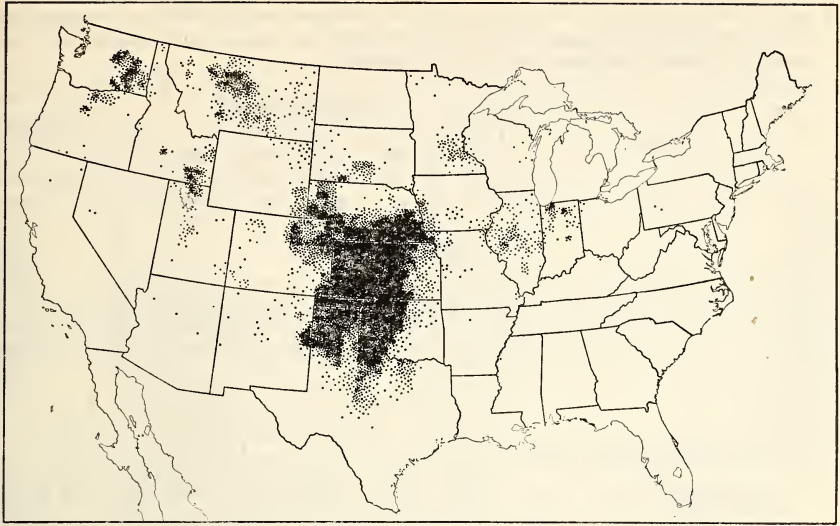


FIGURE 17.—Hard red winter wheat.
30,709,456 acres.

TABLE 9.—Percentage of the total hard red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919 and the estimated acreage for 1944

[The asterisk (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|----------------------|-----------------------|------|------|------|------|------|---------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Tenmarq..... | | | | 0.7 | 11.7 | 28.6 | 8,744,053 |
| Turkey..... | 99.4 | 70.5 | 60.0 | 56.7 | 42.0 | 27.1 | 8,295,881 |
| Blackhull..... | (*) | 7.5 | 22.9 | 25.4 | 27.0 | 15.0 | 4,602,088 |
| Chiefkan..... | | | | | 1.6 | 5.7 | 1,752,751 |
| Early Blackhull..... | | | (*) | .3 | 1.1 | 5.5 | 1,680,732 |
| Cheyenne..... | | | | .2 | 2.5 | 4.6 | 1,398,982 |
| Kanred..... | .5 | 21.2 | 13.1 | 11.0 | 5.1 | 3.3 | 1,023,024 |
| Red Chief..... | | | | | | 2.7 | 817,562 |
| Nebred..... | | | | | (*) | 1.9 | 580,954 |
| Iobred..... | | (*) | .4 | .4 | 1.6 | .7 | 217,517 |
| Nebraska No. 60..... | | .1 | 1.3 | 2.4 | 1.4 | .6 | 187,464 |
| Karmont..... | | (*) | .3 | .3 | .4 | .6 | 190,394 |
| Minturki..... | | .2 | .3 | .6 | .5 | .5 | 164,602 |
| Purkof..... | | | 12.0 | 12.5 | 1.2 | .5 | 158,753 |
| Yogo..... | | | | | .1 | .5 | 150,924 |
| Iowin..... | | | (*) | (*) | .4 | .4 | 116,941 |
| Triumph..... | | | | | | .2 | 72,459 |
| Newturk..... | | | .1 | .1 | .2 | .2 | 59,023 |
| Ridit..... | | (*) | .6 | .6 | .4 | .2 | 49,201 |
| Mosida..... | | | .1 | .1 | .1 | .1 | 42,389 |
| Redhull..... | | | (*) | .3 | .5 | .1 | 36,108 |
| Michikof..... | | .3 | .5 | .4 | .3 | .1 | 32,341 |
| Brill..... | | | | | (*) | .1 | 30,691 |
| Rio..... | | | | (*) | .1 | .1 | 29,979 |
| Comanche..... | | | | | | .1 | 21,522 |
| Utah Kanred..... | | | .1 | .1 | .2 | .1 | 21,273 |
| Relief..... | | | | (*) | .3 | .1 | 20,375 |
| Montana No. 36..... | (*) | .1 | .1 | .1 | .1 | .1 | 15,256 |
| Cache..... | | | | | | .1 | 13,840 |
| Pawnee..... | | | | | | .1 | 11,200 |
| Oro..... | | | (*) | (*) | .2 | .1 | 10,857 |

TABLE 9.—Percentage of the total hard red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919 and the estimated acreage for 1944—Continued

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|----------------------------------------------|-----------------------|-------|-------|-------|-------|-------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Ashkof..... | | | (*) | (*) | (*) | (*) | 8,610 |
| Loturk..... | | | (*) | (*) | 0.1 | (*) | 7,291 |
| Reliant..... | | | | | | (*) | 6,022 |
| Ilred..... | | 0.1 | 0.1 | (*) | (*) | (*) | 4,633 |
| Marmin..... | | | | | | (*) | 3,240 |
| Wisconsin Pedigree No. 2..... | (*) | (*) | (*) | (*) | (*) | (*) | 3,182 |
| Wasatch..... | | | | | | (*) | 2,992 |
| Sherman..... | | | (*) | (*) | (*) | (*) | 1,824 |
| Sibley 81..... | | | | 10.2 | .2 | (*) | 1,500 |
| Ukrainka..... | | | | (*) | (*) | (*) | 1,340 |
| Alton..... | (*) | (*) | .1 | (*) | .5 | (*) | 1,215 |
| Kanhull..... | | | | | | (*) | 1,165 |
| Chequamegon..... | | | | | | (*) | 379 |
| Eagle Chief..... | | | (*) | .1 | | | |
| Enid..... | | | | | (*) | | |
| Cooperatorka..... | | | | | (*) | | |
| Varieties not reported in 1939 and 1944..... | 0.1 | (*) | (*) | (*) | | | |
| Total reported..... | 100.0 | 100.0 | 102.0 | 102.7 | 100.0 | 100.0 | 30,591,925 |
| Varieties not reported..... | | | | | | | 117,531 |
| Total..... | | | | | | | 30,709,456 |

¹ Percentage reported as of soft red winter class, as it was previously reported as a soft red winter variety

Two varieties, Tenmarq and Turkey, were grown on more than 8 million acres each in 1944, while Blackhull, Chiefkan, Early Blackhull, Cheyenne, and Kanred each occupied more than 1 million acres. The combined area occupied by these 7 varieties amounted to 89.8 percent of the total class acreage in 1944. The acreage of Tenmarq increased sharply, while Turkey and Blackhull showed decided decreases. Other varieties showing marked increases were Chiefkan, Early Blackhull, Cheyenne, Red Chief, and Nebred. Comanche and Pawnee, two newly introduced varieties, may not have occupied so great an acreage as the summary indicates.

TENMARQ

Tenmarq was developed at the Kansas Agricultural Experiment Station in cooperative experiments with the Division of Cereal Crops and Diseases, United States Department of Agriculture. It was distributed in 1932 and increased rapidly, becoming the leading variety of hard red winter wheat in 1944, with an estimated area of 8,744,053 acres. The variety also ranked first among all wheats in the United States. The distribution of Tenmarq in 1944 is shown in figure 18. It was the leading variety in Kansas, Oklahoma, and Texas, and in addition smaller acreages were reported in Nebraska, Colorado, Missouri, Mississippi, Arizona, and Montana. This variety was first reported in 1934 when it was estimated to occupy 0.7 percent of the class acreage; it has increased very rapidly until now it occupies 28.6 percent of the class acreage. For the most part it has increased at a loss in the acreage of Turkey, Blackhull, and Kanred. It has now spread over a much wider area than was thought possible when it was first distributed. The variety was first recommended for south-central Kansas, but it has spread over most of the State, through central

and western Oklahoma, north-central and northwestern Texas, and even into eastern Colorado and southern Nebraska, where it seems to be well adapted. The variety is early and is known to be somewhat lacking in cold resistance, but it gives good yields where winterkilling does not occur. It has a lower test weight per bushel than the Black-hull wheats, and the kernels have a tendency to yellowberry, but the milling and baking characteristics are very acceptable. For these reasons the variety has the hearty approval of most of the grain trade.

TURKEY

The distribution of Turkey wheat in 1944, including wheats grown under the name of Kharkof and a number of other synonyms, is shown in figure 19. Until the present survey Turkey was the leading variety

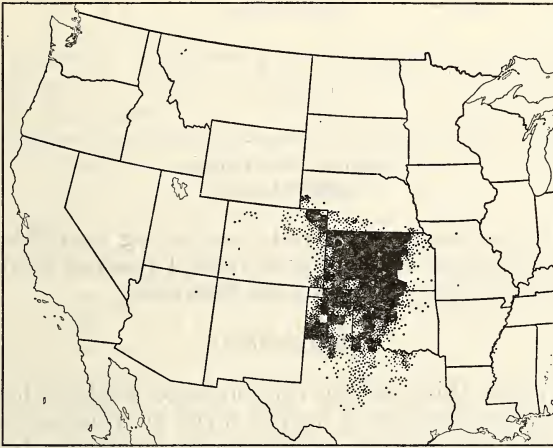


FIGURE 18.—Tenmarq.
8,744,053 acres.

of wheat in number of acres grown, but is now surpassed by Tenmarq. In the 1919 survey Turkey occupied 99.4 percent of the hard red winter wheat acreage, but since that time its area has gradually decreased until in 1944 it was estimated as being grown on only 27.1 percent of the class acreage, or 8,295,881 acres. Turkey is still grown in all but the Eastern and Southeastern States. In 1944 it was reported from 29 States, with the largest acreages in Kansas, Nebraska, Texas, Oklahoma, and Montana. It was the leading variety in Wisconsin, Nebraska, Idaho, Wyoming, Colorado, and Utah, and it ranked second in New Mexico, Arizona, and Washington. The greatest decreases were reported in Kansas, Nebraska, Oklahoma, Texas, and Colorado, where it is being replaced by such new varieties as Tenmarq, Cheyenne, and Nebred.

As stated above, the acreage of Turkey included the reported acreage of Kharkof. In the 1944 survey the acreage of Kharkof was tabulated separately, as in previous surveys. The variety was reported from Colorado, Illinois, Missouri, Montana, Nebraska, and Oklahoma, with a total estimated acreage of 17,158. This is a very much smaller

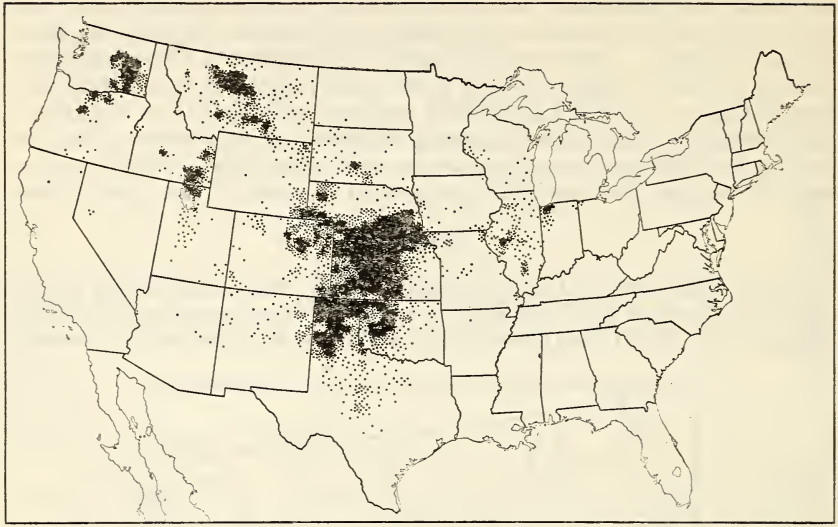


FIGURE 19.—Turkey.
8,295,881 acres.

figure than in previous years, and considering that Kharkof is decreasing and cannot be distinguished from Turkey it would seem that combining the acreages of the two was justified.

BLACKHULL

Blackhull ranks third among the hard red winter wheat varieties. It is grown on approximately half as large an area as is occupied by Tenmarq. The distribution of Blackhull, including Superhard, is shown in figure 20. This variety was first reported in the 1919 survey and gradually increased until it occupied 27.0 percent of the hard red

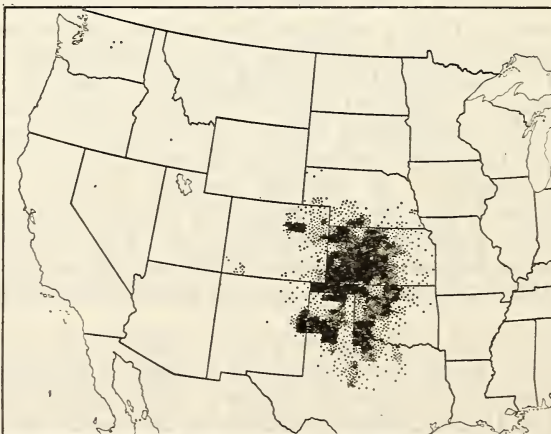


FIGURE 20.—Blackhull.
4,602,088 acres.

winter wheat acreage in 1939. From then its importance decreased, and in 1944 it was estimated to have been grown on only 15.0 percent of the class acreage. Blackhull was reported from 10 States, with the largest acreages in Kansas, Texas, Oklahoma, Colorado, and New Mexico. Not only does this variety rank third among hard red winter wheats but it also ranks third among all wheats in the United States. The variety apparently reached its peak about 1939, and during the last 5 years there have been decided decreases in Kansas, Oklahoma, Texas, and Nebraska, where it was replaced by Tenmarq and other newer varieties. There have been slight increases in New Mexico and Colorado. The variety was popular because of the high test weight, earliness, and good yield, but with the distribution of newer wheat, such as Tenmarq, it is losing some of its popularity.

CHIEFKAN

The distribution of Chiefkan wheat in 1944 is shown in figure 21. This beardless variety was first reported in 1939 when it occupied 1.6 percent of the class total, but by 1944 it had increased to 5.7 percent of the class total, or to approximately 1,700,000 acres. Among all the wheats in the United States it ranked sixth in seeded acreage. Chiefkan was reported from five States—Kansas, Oklahoma, Texas, Colorado, and Nebraska—with the acreages in these States being in the order listed. More than 1 million acres were reported from Kansas. The acreage is the heaviest in southwestern Kansas, western Oklahoma, and in the Texas Panhandle. Chiefkan has black glumes, is beardless, and does not shatter, but it is most noted for its high test weight per bushel. Largely owing to this, it became popular with the farmers. Its serious faults are rather unsatisfactory baking characteristics and susceptibility to most wheat diseases. Farmers feel that it produces high yields, but this is not borne out in experimental trials. Vigorous opposition to the variety was started in 1945.

EARLY BLACKHULL

Early Blackhull is one of the earliest and most winter-tender varieties of hard red winter wheat now being grown commercially. In spite

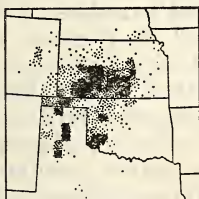


FIGURE 21.—Chiefkan.
1,752,751 acres.

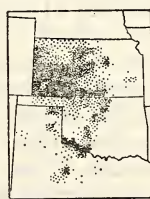


FIGURE 22.—Early Blackhull.
1,680,732 acres.

of this lack of cold resistance it has spread rather rapidly since 1929, when it was first reported. In the 1944 survey it was estimated to occupy 5.5 percent of the class total, or 1,680,732 acres. The distribution of Early Blackhull is shown in figure 22. The variety was re-

ported from Kansas, Oklahoma, Texas, and Colorado, with the principal acreage being located in the first three States listed. Early Blackhull is grown chiefly in western Kansas, western Oklahoma, and the north-central part of Texas. The increase of this variety has been due to good yields of grain having high test weight per bushel. Owing to its extreme earliness it is often able to escape drought and also severe storms which come just before some later varieties mature. By growing some Early Blackhull, large wheat growers are able to spread their harvest, thus having part of their crop ready to cut while the rest of it is still green. Early Blackhull is not a particularly high-yielding variety, but the farmers are willing to sacrifice some yield for earliness. The worst fault of the variety is its lack of desirable milling and baking characteristics, and therefore it has not been on the recommended list of any State.

CHEYENNE

Cheyenne was developed at the Nebraska Agricultural Experiment Station, Lincoln, Nebr., and distributed in 1933. It was reported for the first time in the 1934 survey and since that time has gradually increased until in 1944 it occupied 1,398,982 acres and ranked eleventh in acreage among the wheats of the United States. In 1944 it was reported as being grown in Nebraska, Kansas, Oklahoma, and Texas, with smaller acreages in Colorado, Wyoming, South Dakota, and Illinois. More than half of the total acreage was reported from Nebraska, where it is most popular in the western counties. It is also popular in adjoining counties of Colorado and Kansas. In Nebraska, the acreage of Cheyenne is exceeded only by that of Turkey. The variety is popular because of stiff straw and an erect head and is considered a very good combine type. Owing to its susceptibility to stem and leaf rusts it lost considerable popularity during the epidemic of 1937 and 1938, but in areas where rusts are not so serious the variety is still popular and its acreage is increasing. The distribution of Cheyenne in 1944 is shown in figure 23.

KANRED

Kanred, first distributed in 1917, was developed in cooperative experiments at the Kansas Agricultural Experiment Station, Manhattan. It was one of the first improved varieties to be released in the hard winter wheat area. It reached its greatest popularity in about 1924 when it occupied 21.2 percent of the class area and ranked third among the wheats in the United States. Since that time its area has decreased, and in 1944 it occupied about a million acres, or 3.4 percent of the class total. The distribution of Kanred in 1944 is shown in figure 24. The variety was reported as being grown in 15 States, with the largest acreages in Kansas, Texas, Colorado, and Oklahoma. Fairly sizable acreages were also reported from Nebraska, South Dakota, and Wyoming. It is losing its popularity because of weak straw and the presence of races of stem rusts to which it is not resistant; it is being replaced by Tenmarq and other improved varieties.

RED CHIEF

One of the new varieties appearing in the 1944 survey is Red Chief, a beardless red-chaffed variety having an extremely high test weight per bushel and good kernel color. The distribution of Red Chief in

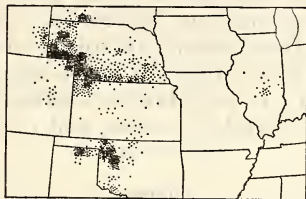


FIGURE 23.—Cheyenne.
1,398,982 acres.

1944 is shown in figure 25. It will be seen that the variety is grown chiefly in southwestern and south-central Kansas, north-central Oklahoma, and the Texas Panhandle, with a small acreage also reported in Colorado. It is known that the acreage of this variety has increased since 1944 in all of the four States mentioned. In 1944 Red Chief

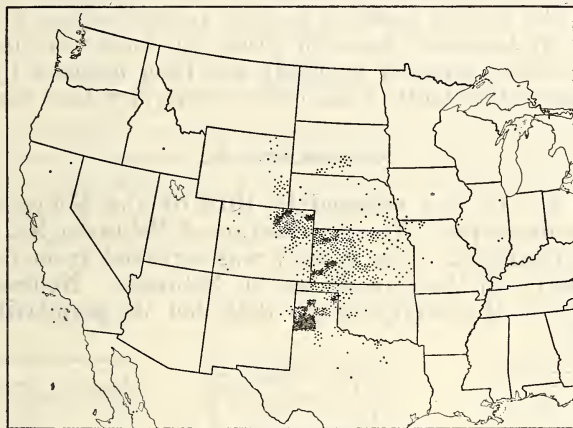


FIGURE 24.—Kanred.
1,023,024 acres.

occupied 817,562 acres, or 2.7 percent of the class total. Red Chief gives a higher test weight than any other variety of hard red wheat now being grown, and it yields fairly well. Unfortunately its milling and baking characteristics are not acceptable to most of the trade, and therefore there is a vigorous campaign against it as well as Chiefkan. The results of this campaign will not be known with certainty until after the next survey.

NEBRED

Nebred, developed at the Nebraska station, was distributed in 1938. Its distribution in 1944 is shown in figure 26. This variety was first reported in 1939, and it has increased gradually during the last 5 years. In 1944 it was reported as being grown in six States, with the principal acreage in southern Nebraska. Smaller acreages were reported from Kansas, Iowa, South Dakota, Colorado, and Oklahoma. Nebred was estimated to occupy 580,954 acres, or 1.9 percent of the class total. The variety is popular in western Nebraska because of good yield, resistance to stinking smut, and outstanding milling and baking properties.

IOBRED

Iobred was developed at the Iowa Agricultural Experiment Station and distributed in 1923. It has been reported in the survey since 1924, but has never become important. It reached its greatest acreage in 1939 when it was estimated to occupy 1.6 percent of the class total, but during the last 4 years it has decreased to 0.7 percent of the class acreage, or only slightly more than 200,000 acres. The distribution of this variety is shown in figure 27. Iobred was reported from six States, with the principal acreages in Kansas, Missouri, Iowa, and Nebraska. The variety seems to be most popular along the Missouri River, probably because it has stiff straw and some resistance to stem rust. Its spread westward probably has been lessened by the fact that it shatters rather badly when grown under dry-land conditions.

NEBRASKA NO. 60

Nebraska No. 60 was released in 1918 by the Nebraska station, where it was developed. The distribution of Nebraska No. 60 in 1944 is shown in figure 28. This variety was reported from four States, although nearly all the acreage was in Nebraska. Nebraska No. 60 has appeared in the surveys since 1924, but its popularity has de-

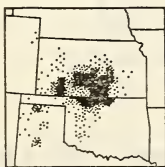


FIGURE 25.—Red Chief.
817,562 acres.

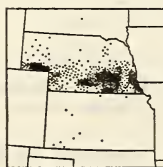


FIGURE 26.—Nebred.
580,954 acres.

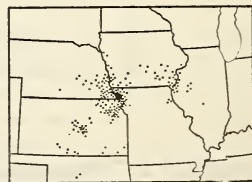


FIGURE 27.—Iobred.
217,517 acres.

creased since 1934. An estimated 187,464 acres was grown in 1944, which was considerably less acreage than in 1939. In Nebraska it now ranks fifth among the varieties grown in the State. This variety was most popular during the years when winterkilling was a factor, but in more recent years, since earlier wheats have given higher yields, it has lost much of its popularity except in western Nebraska.

KARMONT

Karmont was developed in cooperative experiments with the Montana Agricultural Experiment Station at the Judith Basin Branch Station, Moccasin, and was distributed in 1921. Karmont was reported only from its home State in 1944, where it was grown on 190,394 acres, or 0.6 percent of the class total. In Montana it is the second most important hard red winter wheat, with its acreage being concentrated in the north-central part of the State. The distribution of the variety is shown in figure 29.

MINTURKI

Minturki, a production of the Minnesota Agricultural Experiment Station, University Farm, St. Paul, was distributed in 1919. The distribution of Minturki wheat in 1944 is shown in figure 30. This variety was reported from four States and had a total area of 164,602 acres. The principal acreage is in southeastern Minnesota, with smaller quantities being grown in Illinois, Wisconsin, and Nebraska. The variety has been reported in the survey since 1924, but has never either decreased or increased a great deal during that time. Minturki is a popular winter wheat because it has considerable winter hardiness, and therefore it can be grown as far north as Minnesota. It is also resistant to some races of stem rust and bunt.

PURKOF

Purkof was classed among the soft wheats in the surveys previous to 1939. The distribution of this variety in 1944 is shown in figure 31. It was estimated to have been grown on 158,753 acres, or 0.5 per-

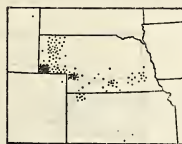


FIGURE 28.—Nebraska No. 60.
187,464 acres.



FIGURE 29.—Karmont.
190,394 acres.



FIGURE 30.—Minturki.
164,602 acres.

cent of the class total. It was reported from four States, with the principal acreage in Indiana, where it was developed, and smaller acreages in Illinois, Pennsylvania, and Ohio. Purkof is grown most extensively in northwestern Indiana and in central Illinois.

YOGO

Yogo was distributed in 1932 from the Moccasin, Mont., station and was first reported in 1939. Since then it increased gradually until 1944, when it was estimated to occupy 150,924 acres. Most of this

acreage was in Montana, but a small quantity was reported in Washington. The distribution of the variety is shown in figure 32. Yogo is popular because it has outstanding cold resistance and is able to give a much better yield than other varieties of hard red winter wheat when winterkilling is serious. It also has resistance to some races of bunt.

IOWIN

Iowin was developed at the Iowa station and was first reported in 1929, but has never become one of the important varieties. In 1944 it was estimated to have occupied 0.4 percent of the class total and was grown on 116,841 acres. It was reported from six States, with the principal acreage being in Iowa and Nebraska along the Missouri River and with smaller acreages in Missouri, Kansas, South Dakota, and Illinois. The distribution of this variety is shown in figure 33.

OTHER VARIETIES OF HARD RED WINTER WHEAT

Several additional varieties of hard red winter wheat are shown in table 9, but their acreages are so small that distribution maps are not given. Triumph, a new wheat, was reported on considerable acreage in Oklahoma and a somewhat smaller acreage in Kansas. This variety has extreme earliness and may become a competitor for Early Blackhull. Newturk was again reported from Montana, where its acreage remained about the same as in 1939. Redit was reported from Idaho, Washington, and Montana, but its total seems to be decreasing. Mosida was reported from Idaho, Utah, Washington, and Oregon where the total acreage of this variety has practically doubled in the last 5 years. Redhull was grown on more than 150,000 acres in 1939, but had decreased until in 1944 it was estimated to occupy only 36,108 acres. It was reported chiefly in Oklahoma and Kansas, and since it does not have any desirable characteristics it may soon no longer be grown. The acreage of Michikof is decreasing rather rapidly, since it was grown on only 32,341 acres in 1944. Brill

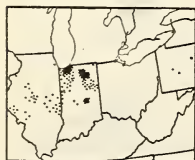


FIGURE 31.—Purkof.
158,753 acres.

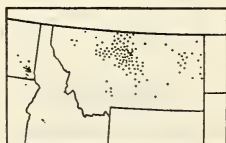


FIGURE 32.—Yogo.
150,924 acres.



FIGURE 33.—Iowin.
116,841 acres.

increased from more than 7,000 to more than 30,000 acres in Illinois during the last 5 years.

A large number of other varieties of hard red winter wheat were reported, but in most cases on very minor acreages. Two new wheats, namely Comanche and Pawnee, reported for the first time, will undoubtedly increase rapidly. Cache and Wasatch, also reported for the first time, will probably increase because of resistance to dwarf smut. A number of older varieties, such as Utah Kanred, Oro, Ioturk, Alton, and Sibley 81, seem to be disappearing.

Of the 47 hard red winter varieties listed in table 9, Tenmarq, Turkey, Cheyenne, Nebred, and the other new varieties, Pawnee, Comanche, and Wichita, are considered the most promising by agronomists of the agricultural experiment stations in the principal winter wheat regions of the South Central States. Others having a more local adaptation include Iobred and Iowin in Iowa; Minturki in Minnesota; Yogo, Karmont, and Newturk in Montana; Mosida in Idaho; Ridit in Washington; Rio in Oregon; and Relief, Cache, and Wasatch in Utah.

SOFT RED WINTER VARIETIES

The soft red winter wheat varieties are grown principally in the semihumid to humid areas east and south of the hard red winter wheat

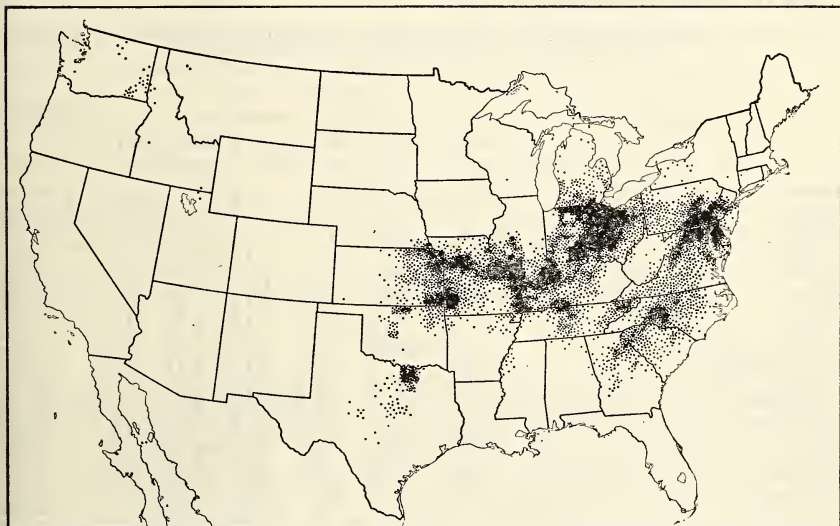


FIGURE 34.—Soft red winter wheat.
11,937,179 acres.

belt, in the eastern half of the United States, and on a small acreage in the Pacific Northwest. There is, however, no sharp line of demarcation of the areas where the two classes are grown. Where they overlap there is considerable fluctuation from year to year in the relative acreages of these classes, depending largely on comparative yields and prices obtained. Soft red winter ranks third among the various market classes of wheat and in 1944 was estimated to make up 18.2 percent of the total wheat acreage of the United States. The distribution in 1944 is shown in figure 34.

Estimates of the 1944 acreages and the percentages of the total reported soft red winter wheat acreage occupied by each variety by 5-year intervals since 1919 are shown in table 10. In 1944, 70 varieties were grown, and of this number 9 were reported for the first time. These new varieties, in order of acreage, are Hardired, Fairfield, Sanford, Nured, Carala, Austin, Kentucky R 47 (Currell selection),

Sanett, and Prairie. Five varieties reported as being grown in 1939 were not reported in 1944, indicating that among the soft red winter wheats new ones are being developed and distributed faster than the old ones are dropping out. The number of varieties grown commercially is much larger than for any other class.

Two varieties, Thorne and Fultz, each were reported as being grown on more than 1 million acres. These two varieties rank ninth and fourteenth, respectively, among the wheats in the United States. Clarkan, Fulcaster, Kawvale, Redhart, Leap, and Trumbull had acreages between 500,000 and 1,000,000, and 13 varieties were grown on from 100,000 to 500,000 acres.

TABLE 10.—Percentage of the total soft red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1944

[The asterisk (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|--------------------------|-----------------------|------|------|------|------|------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Thorne..... | | | | | (*) | 13.7 | 1,587,783 |
| Fultz..... | 23.5 | 17.1 | 14.2 | 15.4 | 12.2 | 10.4 | 1,212,835 |
| Clarkan..... | | | | | 1.2 | 7.8 | 902,199 |
| Fulcaster..... | 12.6 | 17.3 | 13.7 | 11.5 | 10.3 | 7.0 | 815,267 |
| Kawvale..... | | | | .4 | 10.2 | 6.9 | 804,235 |
| Redhart..... | | | (*) | .9 | 2.3 | 5.9 | 690,421 |
| Leap..... | 2.6 | 4.9 | 6.6 | 5.9 | 5.6 | 5.7 | 659,553 |
| Trumbull..... | (*) | 5.7 | 8.9 | 9.4 | 10.8 | 5.1 | 590,448 |
| Nittany..... | | 2.5 | 3.9 | 3.4 | 4.2 | 4.0 | 461,762 |
| Fulhio..... | | .8 | 2.5 | 4.4 | 7.3 | 3.7 | 432,550 |
| Red May..... | 5.7 | 3.8 | 7.8 | 8.1 | 5.0 | 3.3 | 378,079 |
| Mediterranean..... | 13.6 | 5.7 | 5.3 | 4.3 | 3.2 | 2.9 | 331,228 |
| Currell..... | 3.2 | 2.5 | 4.2 | 4.0 | 3.7 | 2.8 | 329,804 |
| Purplestraw..... | 1.3 | 1.1 | 1.5 | 2.5 | 2.5 | 2.6 | 303,426 |
| Forward..... | | (*) | 1.5 | 2.1 | 2.7 | 2.1 | 248,378 |
| Poole..... | 12.0 | 10.0 | 5.9 | 5.6 | 3.1 | 1.8 | 208,188 |
| Rudy..... | 2.0 | 2.4 | 1.9 | 1.8 | 1.9 | 1.8 | 203,345 |
| Flint..... | .5 | 1.0 | .6 | 1.5 | 1.1 | 1.5 | 178,934 |
| Red Rock..... | 1.1 | 3.3 | 2.6 | 1.8 | 1.3 | 1.4 | 163,212 |
| Red Wave..... | 5.5 | 4.2 | 2.5 | 2.5 | 1.4 | 1.0 | 121,278 |
| V. P. I. 131..... | | | .8 | .9 | .8 | .9 | 103,258 |
| Baldrock..... | | | | .2 | .9 | .7 | 84,993 |
| Nigger..... | 1.4 | 1.9 | 1.2 | 1.3 | 1.0 | .7 | 81,650 |
| Goens..... | .6 | 1.0 | .2 | .6 | .8 | .5 | 57,431 |
| Leapland..... | | | | | (*) | .4 | 48,861 |
| Wabash..... | | | | | (*) | .4 | 46,806 |
| Russian Red..... | .8 | .5 | .6 | .3 | (*) | .4 | 46,067 |
| Hardired..... | | | | | | .4 | 45,202 |
| Triplet..... | | 1.0 | 1.6 | 1.0 | .8 | .4 | 43,882 |
| Fairfield..... | | | | | | .3 | 37,873 |
| Purdue No. 1..... | | | | (*) | .5 | .3 | 36,651 |
| Sanford..... | | | | | | .3 | 33,970 |
| Early Premium..... | | | | | .4 | .3 | 32,462 |
| Fultz-Mediterranean..... | 1.5 | .8 | .4 | .3 | .1 | .3 | 28,498 |
| Mammoth Red..... | (*) | .1 | .5 | .4 | .2 | .2 | 28,047 |
| Jones Fife..... | 2.3 | 2.0 | 1.6 | 1.0 | .5 | .2 | 24,795 |
| Denton..... | | | .2 | .4 | .3 | .2 | 24,456 |
| Russian..... | | .2 | .2 | .1 | .2 | .2 | 24,273 |
| Red Russian..... | .8 | .5 | .6 | .2 | .1 | .2 | 21,880 |
| Nured..... | | | | | | .2 | 19,380 |
| Harvest Queen..... | 4.9 | 3.9 | 3.5 | 3.1 | 1.5 | .2 | 19,223 |
| China..... | .3 | .6 | .1 | .1 | .1 | .1 | 13,237 |
| Illinois No. 2..... | | | | (*) | .1 | .1 | 12,672 |
| Rice..... | .2 | .5 | .1 | .1 | .3 | .1 | 10,793 |
| Gladden..... | (*) | 1.0 | .4 | .3 | .2 | .1 | 8,038 |
| Carala..... | | | | | | .1 | 7,247 |
| Hybrid 123..... | .1 | .5 | .3 | (*) | (*) | .1 | 6,431 |
| Austin..... | | | | | | .1 | 6,050 |
| Lothouse..... | (*) | (*) | .1 | (*) | (*) | .1 | 6,359 |
| Ashland..... | | (*) | .1 | (*) | (*) | (*) | 5,384 |
| Grandprize..... | .2 | .1 | (*) | (*) | .1 | (*) | 4,313 |
| V. P. I. 112..... | | | .3 | .1 | .1 | (*) | 4,201 |
| Berkeley Rock..... | | | .2 | .2 | .1 | (*) | 3,872 |

TABLE 10.—Percentage of the total soft red winter wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919, and the estimated acreage for 1944—Continued

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|---------------------------------------------|-----------------------|-------|-------|-------|-------|-------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Prosperity..... | 0.2 | (*) | (*) | 0.1 | 0.1 | (*) | 2,909 |
| Red Clawson..... | .4 | 0.2 | 0.1 | .1 | .1 | (*) | 2,790 |
| Mealy..... | .3 | .1 | .1 | (*) | (*) | (*) | 2,748 |
| Valprize..... | | | | (*) | .1 | (*) | 2,722 |
| Kentucky R 47..... | | | | | | (*) | 2,570 |
| Oakley..... | (*) | (*) | (*) | | (*) | (*) | 2,531 |
| Squareheads Master..... | | | | (*) | (*) | (*) | 2,194 |
| Wheedling..... | .1 | (*) | (*) | (*) | | (*) | 1,350 |
| Diehl-Mediterranean..... | .6 | .6 | .4 | .4 | .1 | (*) | 1,344 |
| Gasta..... | | | | (*) | (*) | (*) | 1,123 |
| Gipsy..... | .6 | .8 | .3 | .3 | .1 | (*) | 1,102 |
| Red Indian..... | | .3 | | | .1 | (*) | 638 |
| Portage..... | (*) | .5 | .1 | .2 | .1 | (*) | 524 |
| Sanett..... | | | | | | (*) | 482 |
| Odessa..... | .3 | .2 | .1 | (*) | (*) | (*) | 433 |
| Nabob..... | | | (*) | (*) | .1 | (*) | 412 |
| Prairie..... | | | | | | (*) | 244 |
| Valley..... | (*) | (*) | (*) | .1 | .1 | | |
| Canawa..... | | | | | (*) | | |
| Climax..... | .1 | (*) | .1 | (*) | (*) | | |
| Kruse..... | | | | (*) | (*) | | |
| Shepherd..... | | | (*) | (*) | (*) | | |
| Varieties not reported in 1939 or 1944..... | .7 | .4 | .2 | (*) | (*) | | |
| Total reported..... | 100.0 | 100.0 | 198.0 | 197.3 | 100.0 | 100.0 | 11,627,301 |
| Varieties not reported..... | | | | | | | 309,878 |
| Total..... | | | | | | | 11,937,179 |

* Formerly included Purkof, which is now classed as a "hard red winter wheat" variety.

THORNE

Thorne was developed at the Ohio Agricultural Experiment Station and distributed in 1937. In 1939, only 3,239 acres were reported, while it was estimated to occupy 1,587,783 acres in 1944, comprising 13.7 percent of the soft red winter wheat acreage and 2.43 percent of the total wheat acreage. As indicated before, it ranks ninth among all wheat varieties in point of acreage. In 1944 Thorne was reported from 12 States, the largest acreage being in Ohio. Other States reporting large acreages were Pennsylvania, Indiana, Illinois, Kentucky, and Michigan, with smaller totals in New Jersey, Missouri, Maryland, Virginia, West Virginia, and Tennessee. Thorne is the leading variety in Ohio and ranks second in New Jersey.

The increase in acreage of Thorne has been very rapid since 1939. In Ohio it was estimated to have increased from 2,894 acres to 1,587,783 acres during the 5 years, or an increase in the percentage of the State acreage from 0.1 to 56.0 percent. In 1944 Thorne was grown in practically every county in Ohio. Its increase seems to have been chiefly at the expense of Trumbull. The distribution of Thorne wheat in 1944 is shown in figure 35.

FULTZ

Fultz was estimated to occupy 1,212,835 acres in 1944. The variety occupied 10.4 percent of the class area and 1.85 percent of the entire

wheat area and ranked second in its class and fourteenth among the wheat varieties in the United States. The distribution of Fultz wheat in 1944 is shown in figure 36. The variety was reported as being grown in 16 States, with the largest acreages in Indiana, Illinois, Missouri, and Kentucky. Fairly sizable acreages were also reported in Ohio, Tennessee, Maryland, and Virginia.

The acreage of Fultz has been decreasing rather steadily since 1919 when it was reported as occupying 23.5 percent of the soft red winter wheat area, ranking third among the varieties grown in the United States. The decrease from 1939 to 1944 was not so large as in some previous periods, but was greatest in Illinois, Maryland, Missouri, and Tennessee, and there was a slight increase in Ohio and Indiana.

CLARKAN

Clarkan, a variety developed by a Kansas farmer, was first distributed in 1934 and was reported for the first time in the 1939 survey. By 1944 it had increased in importance until it ranked third among the

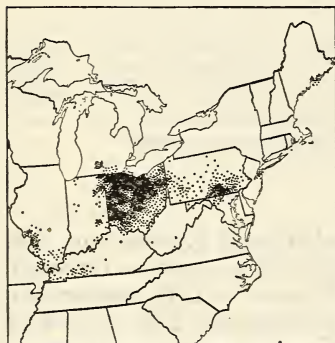


FIGURE 35.—Thorne.
1,587,783 acres.

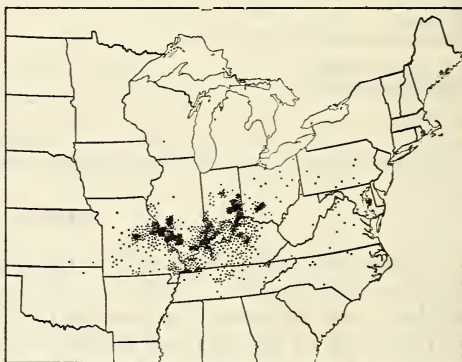


FIGURE 36.—Fultz.
1,212,835 acres.

soft red winter wheats, with an estimated acreage of 902,199. It was estimated to occupy 7.8 percent of the class area and 1.38 percent of the total wheat acreage of the United States. The distribution of Clarkan in 1944 is shown in figure 37. The variety was reported from five States, with the greatest acreage being in Missouri. Kansas, Oklahoma, Illinois, and Kentucky also reported acreages. Clarkan acreages increased in all of the States, with the greatest increase in Missouri, where it jumped from about 63,000 acres to more than 660,000 acres in 5 years. This increase was at the expense of such varieties as Fultz, Red May, and Kawvale.

FULCASTER

Fulcaster is one of the oldest varieties of wheat in the United States and has been reported in each survey beginning in 1919. It reached its peak in 1924 when it occupied 17.3 percent of the class area and since

then has been decreasing rather gradually until, in 1944, it was estimated to have occupied 7.0 percent of the class area and 1.25 percent of the total wheat area. The acreage of this variety was reported as 1,223,308 in 1939 compared with 815,267 in 1944. The distribution of Fulcaster in 1944 is shown in figure 38. Fulcaster is one of the most widely grown varieties and was reported from 21 States, with the largest acreages in Tennessee, Illinois, and Virginia, all of which had more than 100,000 acres. Rather large acreages were reported from Pennsylvania, Ohio, Missouri, Nebraska, Kansas, Maryland, West Virginia, North Carolina, Kentucky, and Oklahoma. In most of the States rather sizable decreases were shown during the last 5 years, especially in Kansas, Maryland, Missouri, Oklahoma, and Texas. Slight increases were reported for Ohio, West Virginia, and Georgia. This is a variety that is being gradually displaced by some of the newer productions.

KAWVALE

Kawvale was released by the Kansas Agricultural Experiment Station in 1932 and appeared in the survey for the first time in 1934. The acreage increased rather rapidly and in 1939 was estimated to occupy 10.2 percent of the class total, but during the last 5 years the acreage of this variety has decreased and in 1944 it was estimated to occupy 6.9 percent of the class total and 1.23 percent of the total wheat area. In 1944 Kawvale was estimated to occupy 804,235 acres in seven States.

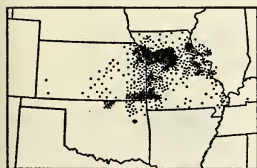


FIGURE 37.—Clarkan.
902,199 acres.

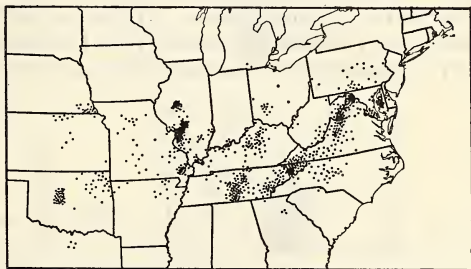


FIGURE 38.—Fulcaster.
1,223,308 acres.

The distribution of the variety in 1944 is shown in figure 39. The greatest area, about 500,000 acres, was reported in eastern Kansas, with large quantities of the variety also present in western Missouri and in Illinois and smaller ones in Oklahoma, Nebraska, Iowa, and Arkansas. The chief decreases, which were in Kansas and Missouri, were caused by replacement with Clarkan. Kawvale has early maturity, resistance to leaf rust and loose smut, moderate resistance to stem rust and hessian fly, and gives a high yield despite a tendency to shatter. For these reasons it was very popular with the farmers. Although the grain usually looks like a soft wheat and is classed as such, the kernels are often semihard and similar to some of the hard red winter wheats in milling and baking characteristics. This has caused the variety to

become rather unpopular with the trade where there have been vigorous campaigns against it, and apparently the acreage of Kawvale is decreasing.

REDHART

Redhart is a variety largely confined to the southeastern United States, being reported from Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Kentucky, Tennessee, Alabama, Mississippi and Arkansas. The distribution of Redhart in 1944 is shown in figure 40. The greatest acreages were in North Carolina, South Carolina, and Virginia. The variety was first reported in 1929 and has increased rather gradually since that time. It made its greatest increase during the last 5 years and is now estimated to occupy 690,421 acres, or 5.9 percent of the class total. The greatest increases during the last 5 years were reported in North Carolina, Virginia, South Carolina, and Georgia. It is the leading variety in North Carolina and South Carolina and ranked second in Virginia and Georgia.

LEAP

The distribution of Leap wheat in 1944 is shown in figure 41. It was estimated to have been grown on 659,553 acres, comprising 5.7 percent of the class total. This variety has been reported in each of the surveys, but the acreage has not varied a great deal since 1934. In 1944 Leap was reported from 14 States, with the largest acreage in Maryland, Pennsylvania, Virginia, North Carolina, and New Jersey, being very definitely confined to the eastern part of the United States. It is apparently well adapted to the eastern area and has not increased

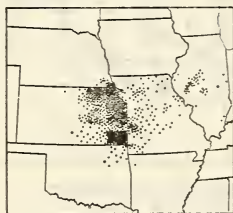


FIGURE 39.—Kawvale.
804,235 acres.

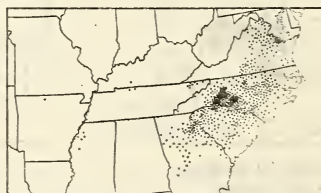


FIGURE 40.—Redhart.
690,421 acres.

or decreased greatly since 1919. In Maryland and Kentucky there were decided increases, while in Pennsylvania, North Carolina, Delaware, and Virginia there were decreases in acreages.

TRUMBULL

In 1916 Trumbull was distributed by the Ohio station to farmers in that State. In 1944 it was estimated to occupy 590,448 acres, or 5.1 percent of the class total. This was a decided decrease, since in 1939 it was grown on more than 1 million acres and occupied 10.8 percent of the class total. The distribution of Trumbull wheat in 1944 is shown

in figure 42. Trumbull was reported from eight States, with by far the greatest acreage in Ohio. Indiana reported nearly 150,000 acres, but in all other States it is a variety of minor importance. From 1924 to 1939 Trumbull was the leading variety of wheat in Ohio, being grown on more than 1 million acres, but during the last 5 years it has been replaced by Thorne and now ranks second in that State. In Indiana the acreage of the Trumbull decreased slightly, but the percentage went up due to a reduction in the wheat acreage of that State. Trumbull apparently is going to be replaced rather rapidly.

NITTANY

Nittany was reported as being grown in 11 States in 1944, and the distribution is shown in figure 43. This variety has been grown since 1918, but was first reported in the 1924 survey. It has never become



FIGURE 41.—Leap.
659,553 acres.

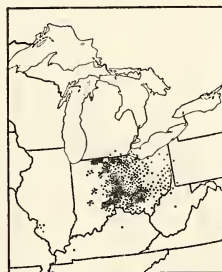


FIGURE 42.—Trumbull.
590,448 acres.

important among the wheats of the United States, but was estimated to occupy 461,762 acres in 1944, or 4.0 percent of the class total, with nearly 75 percent of this acreage in Pennsylvania. Fairly large acreages were reported in Maryland and Delaware. The acreage of Nittany increased in Maryland and decreased slightly in Pennsylvania. Nittany is still the leading variety in Pennsylvania, where it was developed, but it no longer has the large acreage that was reported for it in 1939. Nittany is also the leading variety in Delaware and ranks second in Maryland.

FULHIO

Fulhio was estimated to have been grown on 432,550 acres in 1944. This constituted 3.7 percent of the class total and was approximately half the percentage of the acreage of this variety reported in 1939. The distribution of Fulhio is shown in figure 44. The variety was again reported from seven States, with the principal acreage being in southern Illinois, Ohio, and southwestern Missouri. Smaller acreages were in Pennsylvania, Indiana, West Virginia, and Kentucky.

The principal decrease in acreage was in Ohio, with smaller decreases in Illinois, Indiana, and Missouri. Fulhio is another variety developed in Ohio that apparently is being replaced by Thorne.

RED MAY

It is estimated that Red May wheat occupied 378,079 acres in 1944, which was 3.3 percent of the class total. It was reported from 11 States, with the largest acreages in Missouri and Indiana and smaller ones in Illinois, Arkansas, Oklahoma, and Texas. The distribution of Red May is shown in figure 45. In Arkansas, Red May is the leading variety of wheat, and in this State it showed a sizable increase during the last 5 years. Other increases were reported in Oklahoma and Texas, but in Illinois, Indiana, and Missouri there were decreases in acreage.

Considerable fluctuation in the indicated acreages of Red May in the past were due in part to different grouping of synonyms. The name



FIGURE 43.—Nittany.
461,762 acres.



FIGURE 44.—Fulhio.
432,550 acres.

Red May is applied to an awnless, glabrous, brown-glumed variety in the Central States. In the Southern States the same name is used for an awnless, glabrous, white-glumed wheat synonymous with Flint. In the 1924 survey much of the Red May in the Southern States was reported as white-glumed and in compilation was shown as Rice. In 1929 only the white-glumed wheat reported as Red May was compiled as Rice, and all others were tabulated as Red May, thus causing a large increase in reported acreage. Continued study has shown that the Red May in the Southeastern States is synonymous with Flint, and in recent surveys it was so reported. The decrease in the acreage shown in 1944 probably can be considered as being due to a decreased interest in the variety, since the method of reporting has not been changed since 1934.

MEDITERRANEAN

The estimated 1944 acreage of Mediterranean was 331,228 acres, comprising 2.9 percent of the class total. The acreage of this variety has decreased rather gradually since the first report in 1919. The

distribution of Mediterranean in 1944 is shown in figure 46. At one time the variety ranked fourth among all wheats, but at the present time it is of minor importance. It was reported from 13 States, with the largest acreage in Texas. Considerable acreages of Mediterranean was reported from Illinois, and there were smaller quantities in Missouri, Kentucky, Tennessee, Arkansas, and Oklahoma. The acreage of this variety increased in Illinois, Arkansas, and Tennessee, while there was a decided decrease in Kansas, Missouri, and Oklahoma. Probably the greatest drop was in Kansas, where it has been replaced by Kawvale and Clarkan. The variety still shows a rather wide adaptation, as it was reported from New Jersey, Pennsylvania, and Virginia to Texas. Undoubtedly it will be replaced in Texas because of its susceptibility to rust.

CURRELL

Currell was estimated to have been grown on 329,804 acres in 1944, comprising 2.8 percent of the class total. The distribution of Currell wheat in 1944 is shown in figure 47. The variety was reported

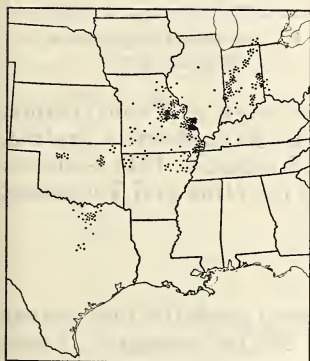


FIGURE 45.—Red May.
378,079 acres.



FIGURE 46.—Mediterranean.
331,228 acres.

from seven States, with the largest acreages in Kentucky, Missouri, Tennessee, and Oklahoma. The acreages of this variety increased in Kentucky and Tennessee, but decreased in Oklahoma, Missouri, Maryland, and Kansas. In Kentucky, Currell ranks second in importance. A selection of Currell, Kentucky R 47, recently has been distributed by the Kentucky Agricultural Experiment Station.

PURPLESTRAW

In 1944 Purplestraw was reported as being grown on 303,426 acres, which was approximately the same area as it occupied in 1939. In fact, the distribution of Purplestraw has not varied a great deal since the first survey was made in 1919. The 1944 distribution is shown in figure 48. The variety was reported from eight States, with the largest acreages in Georgia, South Carolina, and North Carolina, and somewhat smaller acreages in Virginia, Tennessee, and Alabama. Purple-

straw is a variety definitely confined to the southeastern section of the United States.

FORWARD

Forward was developed and distributed by the Cornell University Agricultural Experiment Station in 1920. It was first reported in the 1924 survey and increased rather gradually until 1939, but during the last 5 years has decreased in importance. In 1944 it was estimated to occupy 248,378 acres, or 2.1 percent of the class total, while in 1939 it occupied 2.7 percent of the class total. The variety was reported



FIGURE 47.—Currell.
329,804 acres.

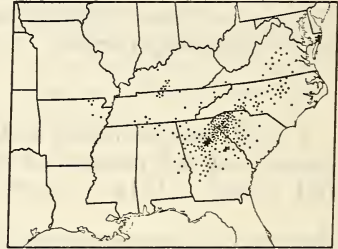


FIGURE 48.—Purplestraw.
303,426 acres.

from 11 States, with almost half of the acreage in Pennsylvania. Other States with considerable acreage were Virginia, North Carolina, and Tennessee. The distribution of Forward wheat in 1944 is shown in figure 49. The acreage increased in North Carolina and Tennessee, but decreased in Pennsylvania and Virginia.

POOLE

The acreage of Poole has gradually decreased since the first survey in 1919. In 1944 it was estimated to occupy 208,188 acres, or 1.8 per-



FIGURE 49.—Forward.
248,378 acres.

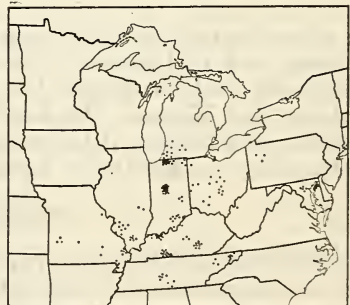


FIGURE 50.—Poole.
208,188 acres.

cent of the class total. In the earlier survey this variety was listed in the million-acre class, but its importance has decreased rather sharply. The distribution in 1944 is shown in figure 50. Poole was

reported from 12 States, with the largest acreages in Indiana and Kentucky. The variety is also of some importance in Ohio, Illinois, Michigan, Missouri, Maryland, and Tennessee. Slight increases were shown in Illinois, Kentucky, Maryland, and Michigan, but there were sizable decreases in Indiana, Missouri, and Ohio with smaller decreases in West Virginia, North Carolina, and Pennsylvania.

RUDY

Rudy is another variety with a relatively small acreage, but one that has remained quite constant throughout the years of the wheat surveys. In 1944 it was estimated to occupy 203,345 acres, or 1.8 percent of the class total. This is only slightly less than was reported in 1939. The variety was reported from six States with by far the greatest acreage in southern Indiana. It was also grown in Illinois, Pennsylvania, Ohio, Michigan, and Tennessee. The distribution of Rudy wheat in 1944 is shown in figure 51.

FLINT

Flint was estimated as being grown on 178,934 acres in 1944, an area comprising 1.5 percent of the total acreage of soft red winter wheat. The distribution is shown in figure 52. The variety was reported from nine States, all in the southeastern part of the United



FIGURE 51.—Rudy.
203,345 acres.

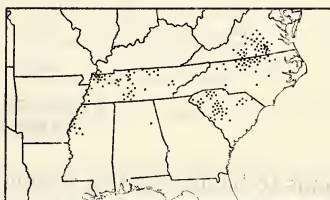


FIGURE 52.—Flint.
178,934 acres.

States. Tennessee, South Carolina, Virginia, and North Carolina have the largest acreages. In Virginia and Georgia there were decreases in acreage during the last 5-year period, but in other States there were increases, especially in Tennessee. In Mississippi, Flint is the leading variety, occupying over 40 percent of the wheat acreage of the State. Based on the total figure the variety slightly increased in importance since the last survey and now occupies as great a proportion of the class area as it did in 1934. During the six surveys, the reported acreage of Flint has fluctuated considerably, due in part to the grouping of synonyms, as explained in the discussion of Red May. No change in method has occurred since 1934, however, so changes should reflect fluctuations in actual acreage of the variety.

RED ROCK

Red Rock was estimated to have been grown on 163,212 acres in 1944, which was almost the same area as it occupied in 1939. In fact, the acreage of this wheat has fluctuated very little during the last three surveys. The distribution of Red Rock in 1944 is shown in figure 53. The largest acreage is in Michigan with some in Indiana. Smaller acreages were reported from Pennsylvania, Illinois, Virginia, and Oklahoma. The general trend of this variety is downward, although it did show a slight increase in Michigan where the wheat was developed. After more than 20 years Red Rock is still the most important soft red winter wheat grown in that State.

RED WAVE

Red Wave was estimated to have been grown on 121,278 acres in 1944, comprising 1.1 percent of the class total. This is another variety

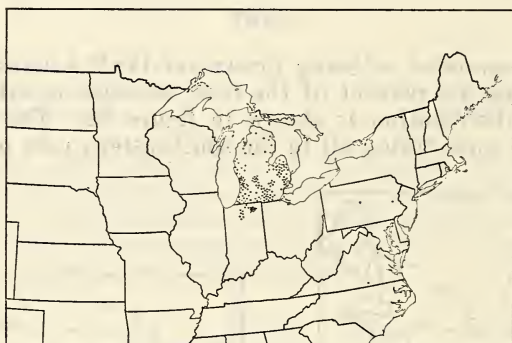


FIGURE 53.—Red Rock.
163,212 acres.

that seems to be decreasing rather gradually. Its distribution in 1944 is shown in figure 54. It was reported grown in 10 States, but in no case was it a leading variety. The largest acreage was in Missouri, with smaller acreages in Indiana, Illinois, Michigan, and Pennsylvania. In no State has there been an important increase in acreage.

V. P. I. 131

V. P. I. 131 was first reported in the 1929 survey and since that time has shown almost no fluctuation of the percentage of the class total. In 1944 it was estimated to have occupied 103,258 acres, or 0.9 percent of the class total. Practically all of the acreage of this variety is in western Virginia, with only small areas in Delaware, North Carolina, and Tennessee. In Virginia the acreage has remained fairly constant, and at the present time the variety ranks fourth in the State. The distribution of this variety is shown in figure 55.

OTHER VARIETIES OF SOFT RED WINTER WHEAT

In addition to the 21 varieties discussed, and for which maps are presented, 49 others were reported in 1944, as shown in table 10. Maps were made only for those varieties of soft red winter wheat that had an estimated acreage of 100,000 acres or more. In most cases the less important varieties are grown in the States where they were developed or in local areas, and most of them are decreasing. The acreages of Baldrock, Nigger, Goens, Triplet, Jones Fife, and Harvest Queen have shown gradual decreases, especially during the last 5 years. Five varieties, each grown on small acreages in 1939, were not reported in 1944.

Several new varieties have increased in acreage. Leapland and Wabash, first reported in 1939, have increased, while Early Premium decreased. Other varieties reported for the first time in 1944 include Nured in New York; Fairfield in Indiana; Sanford in Georgia; Austin



FIGURE 54.—Red Wave.
121,278 acres.



FIGURE 55.—V. P. I. 131.
103,258 acres.

in Texas; Carala from North Carolina; Hardired and Sanett in South Carolina; and Prairie in Illinois.

Of the 70 varieties listed in table 10, the old standard varieties Fultz, Fulcaster, Leap, and Purplestraw are still recommended for certain States, and the newer varieties Thorne, Clarkan, and Redhart have shown the largest gains.

WHITE VARIETIES

The estimated acreage of white varieties in 1944 was 5,092,525 acres, comprising 7.7 percent of all wheat in the United States. This is an increase of about 1 percent during the last 5 years, but the white wheats still rank fourth among the market classes so far as acreage is concerned. In 1924 and 1929 the durum wheats exceeded the white wheats in acreage, but in all other surveys the white wheats have been in the lead. The distribution of white wheat (both common and club) in 1944 is shown in figure 56. These wheats are grown in the Western States, especially Oregon, Washington, and Idaho, with smaller acreages in Michigan, New York, and South Dakota.

The varieties of white wheat are listed in table 11 in the order of their estimated acreage in 1944; the percentage of the total class acreage occupied by each variety by 5-year intervals since 1919 is also shown. The leading varieties in 1944 were Baart, Federation, Dawson, Yorkwin, and Rex in the order named. The first 3 varieties ranked in the same order in 1939, but Yorkwin moved ahead of Rex during the last 5 years. No white wheat occupies as much as a million acres, and only 12 varieties were estimated as being grown on more than 100,000 acres each.

The number of white wheat varieties reported as being grown commercially in 1919, 1924, 1929, 1934, 1939, and 1944 were 47, 46, 52, 62,



FIGURE 56.—White wheats.
5,092,525 acres.

65, and 55, respectively. Nineteen varieties reported in 1939 had no reported acreage in 1944. These were Hard Federation 31, Currawa, Eickmeyer, Erect, Hybrid 143, Union, Gypsum, Hood, Mackey, Bluechaff, Allen, Arco, Propo, Sonora 37, Martin, Canadian Red, Lynn, Flomar, and Powerclub. New varieties reported for the first time were White Federation 38, Baart 38, Cornell 595, Orfed, and White Fife. Several varieties not reported in 1939, but which were in earlier surveys, were again reported in 1944.

It is quite possible that in the case of such varieties as Baart 38 and White Federation 38 the reported acreage is too low, because in the schedules these wheats may not have always been differentiated from Baart and White Federation. This was caught and corrected in California.

TABLE 11.—Percentage of the total white wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919 and the estimated acreage for 1944

[The asterisk (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|-------------------------------|-----------------------|------|------|------|------|------|---------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Baart | 10.0 | 16.9 | 17.1 | 19.8 | 21.6 | 16.5 | 831,098 |
| Federation | | 1.1 | 16.8 | 17.4 | 14.4 | 13.8 | 694,254 |
| Dawson | 2.5 | 2.2 | .9 | 8.9 | 9.2 | 9.2 | 460,897 |
| Yorkwin | | | | | 3.0 | 9.0 | 452,777 |
| Rex | | | | | 9.0 | 8.9 | 449,787 |
| Goldcoin | 19.1 | 23.4 | 19.9 | 10.9 | 6.5 | 8.6 | 434,320 |
| Hymar | | | | | 3.1 | 4.1 | 204,672 |
| White Federation 38 | | | | | | 4.0 | 197,840 |
| Baart 38 | | | | | | 3.3 | 166,557 |
| Golden | | | | (*) | .9 | 3.3 | 164,824 |
| Lemhi | | | | | (*) | 2.2 | 108,374 |
| Hybrid 128 | 5.8 | 14.5 | 8.0 | 3.6 | 1.1 | 2.1 | 106,645 |
| Dicklow | 3.3 | 4.0 | 5.7 | 4.4 | 3.4 | 1.7 | 87,077 |
| Alicel | | | | | .1 | 1.2 | 62,643 |
| Wilhelmina | | | .5 | .9 | .9 | 1.1 | 57,003 |
| Pacific Bluestem | 27.4 | 13.0 | 8.1 | 4.2 | 3.1 | 1.0 | 52,859 |
| Bunyip | (*) | 1.0 | 2.6 | 1.8 | 2.3 | 1.0 | 49,103 |
| Onas | | | .4 | .7 | .9 | 1.0 | 48,573 |
| White Federation | | (*) | .9 | 2.6 | 5.5 | 1.0 | 47,978 |
| Florence | | .4 | 2.9 | 3.0 | 3.5 | .9 | 46,584 |
| Idaed | | | | | (*) | .9 | 43,782 |
| White Winter | 1.1 | 1.0 | .6 | .4 | .6 | .6 | 32,612 |
| Albit | | | 1.7 | 9.8 | 3.1 | .5 | 26,169 |
| Big Club | .4 | .7 | .1 | .9 | .8 | .5 | 24,248 |
| Galgalos | .7 | .5 | .3 | .3 | .5 | .4 | 18,085 |
| Sonora | 5.3 | 3.1 | 2.0 | 1.3 | .6 | .3 | 15,921 |
| Pilcrow | (*) | | .3 | .6 | .6 | .3 | 15,227 |
| Ramona | | | | (*) | .2 | .3 | 14,854 |
| Jenkin | 1.3 | 3.9 | 2.1 | 1.2 | .4 | .3 | 13,651 |
| Greeson | .1 | .4 | .2 | .4 | .3 | .3 | 13,296 |
| Pacific Bluestem 37 | | | | | (*) | .3 | 12,628 |
| Oregon Zimmerman | | | .1 | .4 | .4 | .2 | 12,466 |
| Hard Federation | | .4 | 1.4 | .2 | .2 | .2 | 10,522 |
| Honor | | .2 | .4 | 1.7 | .9 | .2 | 7,811 |
| Poso | | | | (*) | .6 | .1 | 7,348 |
| Silvercoin | (*) | (*) | .1 | (*) | | .1 | 7,215 |
| Major | | | | (*) | .1 | .1 | 6,018 |
| Club (varieties not reported) | 7.7 | 5.7 | 2.8 | .5 | .4 | .1 | 4,650 |
| Requa | | | | | (*) | .1 | 4,424 |
| Utac | | | (*) | (*) | .1 | .1 | 4,291 |
| Defiance | 3.9 | 1.3 | .9 | .9 | .3 | .1 | 3,176 |
| Little Club | 2.1 | .8 | .4 | .7 | | .1 | 2,945 |
| Red Chaff | .8 | .1 | .2 | .1 | .1 | (*) | 2,259 |
| Rink | .3 | .7 | .7 | .2 | .1 | (*) | 1,614 |
| Kofod | .2 | .2 | .1 | (*) | | (*) | 1,443 |
| Cornell 595 | | | | | | (*) | 1,126 |
| Escondido | | | .1 | .4 | .4 | (*) | 1,107 |
| Touse | .5 | .3 | .1 | .1 | (*) | (*) | 1,073 |
| Sevier | (*) | .1 | .1 | (*) | (*) | (*) | 875 |
| Orfed | | | | | | (*) | 618 |
| Hybrid 63 | .7 | .4 | | .1 | .1 | (*) | 341 |
| Athena | | | | | (*) | (*) | 316 |
| White Fife | | | | | (*) | (*) | 83 |
| Surprise | 1.2 | .6 | .5 | .1 | .1 | (*) | 71 |
| Hard Federation 31 | | | | .1 | .2 | | |
| Currawa | | | | .2 | .2 | | |
| Eickmeyer | | | | .2 | .1 | | |
| Erect | | | | | .1 | | |
| Hybrid 143 | 1.0 | .5 | .2 | .2 | (*) | | |
| Union | | | | | (*) | | |
| Gypsum | .2 | (*) | | (*) | (*) | | |
| Hood | | | | (*) | (*) | | |
| Mackey | | | | .1 | (*) | | |
| Bluechaff | (*) | .1 | (*) | (*) | (*) | | |
| Allen | .3 | .2 | (*) | (*) | (*) | | |
| Arco | | | | .2 | (*) | | |
| Propo | .4 | .3 | .4 | .1 | (*) | | |
| Sonora 37 | | | | | (*) | | |
| Martin | .8 | .2 | (*) | .1 | (*) | | |
| Canadian Red | (*) | | | | (*) | | |

TABLE 11.—Percentage of the total white wheat acreage occupied by each variety of that class in the United States at 5-year intervals since 1919 and the estimated acreage for 1944—Continued

| Variety | Percentage of acreage | | | | | | Acreage, 1944 |
|----------------------------------------------|-----------------------|-------|-------|-------|-------|-------|------------------|
| | 1919 | 1924 | 1929 | 1934 | 1939 | 1944 | |
| Lynn..... | 0.2 | | | 0.1 | (*) | | |
| Flomar..... | | | | | (*) | | |
| Powerclub..... | | 0.2 | 0.1 | .1 | (*) | | |
| Varieties not reported in 1939 and 1944..... | 2.7 | 1.6 | .3 | .3 | | | |
| Total..... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 5,036,130 |
| Varieties not reported..... | | | | | | | 56,395 |
| Total..... | | | | | | | 5,092,525 |

BAART

Baart was estimated to have been grown on 831,098 acres in 1944, comprising 16.5 percent of the class acreage and 1.27 percent of the total wheat acreage. This was a reduction of about 58,000 acres during the last 5 years, caused in part by the increase in Baart 38. The distribution of Baart wheat in 1944 is shown in figure 57. Baart was reported as being grown in 12 States in 1944, with by far the largest acreage in Washington. There were sizable acreages in Idaho, California, and Utah. It is the leading variety in Arizona and Washington and ranks second in Nevada. In Washington there was an increase of about 100,000 acres, but in California there was a decrease of about 170,000 acres. The center of the Baart acreage is in Adams and Lincoln Counties in Washington, but in all other States it is scattered rather widely.



FIGURE 57.—Baart.
831,098 acres.

FEDERATION

Federation, first reported in 1924, increased rather rapidly until 1934, but since that time it has gradually decreased. In 1944 the variety was estimated to occupy 694,254 acres, or 13.8 percent of the class total. The acreage was larger in 1944 than in 1939, and it made up 1.06 percent of the total wheat area. Federation was reported

as being grown in seven States, with the largest acreages in Washington, Oregon, Idaho, and Utah. It is the leading variety in Nevada, ranks second in Idaho and Utah, and third in Washington and Oregon. The principal changes in acreage during the last 5 years were large decreases in Idaho and Oregon, while in Washington there was an increase of more than 250,000 acres. There was also a small

increase in Utah. The distribution of Federation wheat in 1944 is shown in figure 58.

DAWSON

Dawson (American Banner) is a white wheat grown only in the eastern part of the United States. It is the leading variety in Michigan and in 1944 was estimated to have been grown on 460,897 acres, or 9.3 percent of the class total. This represented a slight increase over the acreage reported for 1939. Most of the Dawson wheat is grown in Michigan, but smaller acreages were reported from New Jersey, Ohio, and Illinois. In Michigan the actual acreage increased, but owing to an increased wheat acreage in the State the percentage went down from 47.3 in 1939 to 46.3 in 1944. The distribution of Dawson wheat in 1944 is shown in figure 59.

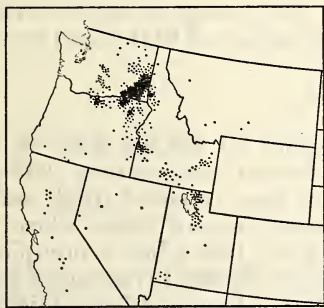


FIGURE 58.—Federation.
694,254 acres.



FIGURE 59.—Dawson.
460,897 acres.

YORKWIN

Yorkwin is a new variety of white winter wheat distributed from the Cornell station in New York in the fall of 1936. By 1939 it occupied 122,261 acres, or 3.0 percent of the class total, and in 1944 it had increased to 452,777 acres, or 9.0 percent of the class total. Most of the acreage is in western New York, but it is also grown in New Jersey, Pennsylvania, southeastern Michigan, and Kentucky. In New York the increase during the last 5 years has been about 200,000 acres, and it now occupies 86.7 percent of the wheat acreage in the State, compared with 43.7 percent in 1939. There was a large increase in Michigan, where Yorkwin ranks third and is grown on more than 100,000 acres, or 11.8 percent of the State's acreage. The distribution of Yorkwin in 1944 is shown in figure 60.

REX

Rex was developed at the Moro and Pendleton stations in Oregon and distributed in 1934. This variety was reported in the 1939 survey for the first time when it occupied 9.0 percent of the class total. In 1944 it was estimated to be grown on 449,787 acres, which was 8.9 percent of the class total. The distribution of the variety in 1944 is shown

in figure 61. Rex was reported from five States, Oregon, Washington, Idaho, Montana, and California, listed in the order of their respective areas. Acreage increases were noted in Oregon, Washington, and Idaho. It is the leading variety in Oregon, since it occupied 27.5 per-



FIGURE 60.—Yorkwin.
452,777 acres.



FIGURE 61.—Rex.
449,787 acres.

cent of the wheat area of the State. Its acreage is concentrated in southeastern Washington, the adjoining section of Idaho, and in north-central Oregon.

GOLDCOIN

Goldcoin was estimated as being grown on 434,320 acres in 1944, or 8.6 percent of the class total. This was an increase over 1939 when it occupied 267,501 acres. Goldcoin has been reported in all surveys, and in 1924 and 1929 was the most widely grown white wheat. Its acreage then decreased rather rapidly until 1939 when it occupied 6.5 percent of the class total. The variety was reported from eight States, the largest acreages being in Washington, Oregon, Idaho, Michigan, Ohio, and New York. The acreage has increased in Washington, Oregon, and Idaho, but has decreased in New York and Ohio. In the East it is being replaced by Yorkwin. The distribution of Goldcoin in 1944 is shown in figure 62.

HYMAR

Hymar, a variety of white winter club wheat, was distributed in Washington in 1935. It was reported in the 1939 survey as being grown on 126,919 acres, or 3.1 percent of the class total. It increased considerably and in 1944 occupied 204,672 acres, or 4.1 percent of the class total. The 1944 distribution is shown in figure 63. The largest acreage was reported from eastern Washington, with smaller quantities in northern Oregon and western Idaho. Increases were shown in



FIGURE 62.—Goldcoin.
434,320 acres.

all of the States, with the largest ones in Oregon and Washington. It is still the most widely grown club wheat, having replaced much of the Albit acreage.

WHITE FEDERATION 38

White Federation 38 was developed at the California Agricultural Experiment Station and distributed in 1939. It is the result of a backcrossing program designed to produce a bunt- and stem-rust-resistant White Federation. In 1944 the variety was estimated to occupy 197,840 acres, or 4.0 percent of the class total. All of this acreage was in



FIGURE 63.—Hymar.
204,672 acres.



FIGURE 64.—White Federation 38.
197,840 acres.



FIGURE 65.—Baart 38.
166,557 acres.

California where it is the leading variety of wheat and is well distributed throughout the wheat areas of the State. The distribution of White Federation 38 in 1944 is shown in figure 64.

BAART 38

Baart 38 is very similar to Baart except that it is resistant to stem rust and to some races of bunt. It is the result of a backcrossing program carried out at the California Agricultural Experiment Station, and the variety was distributed in 1939. It was estimated to occupy 166,557 acres, or 3.3 percent of the class total in 1944. Practically all of this acreage is scattered in California, with a small amount in Arizona. Due to the similarity of names it may be that some of the acreage of Baart may actually be Baart 38. The distribution of Baart 38 in 1944 is shown in figure 65.

GOLDEN

Golden, a selection of Goldcoin, was distributed in Oregon in 1930, and in Idaho in 1931. It was reported in the 1934 survey and since then has been increasing gradually. In 1944 it was estimated to occupy 164,824 acres, or 3.3 percent of the class total. The variety was reported in Washington, Oregon, and Idaho. Its acreage was mostly in southeastern Washington, with a smaller area in Oregon. The distribution of Golden in 1944 is shown in figure 66.

Of the 55 varieties of white wheat listed in table 11 and reported grown in 1944, the old standard varieties Baart and Federation continue as important wheats and are recommended for certain sections. Of the newer varieties, Yorkwin, Rex, Hymar, White Federation 38, Baart 38, Golden, Lemhi, Alicel, and Onas have made the greatest gains during the last 5 years.

CLUB VARIETIES

All club varieties with white kernels are listed with the white wheats in table 11, and those with red kernels are listed with the soft red winter wheats in table 10. This is in agreement with the market classes and subclasses. It seems desirable, however, to consider the club wheats as a group, and in table 12 all such varieties are listed, regardless of kernel color. In 1944, 12 named varieties of club wheat were reported. A considerable acreage of unnamed varieties was listed in the table as "Club (varieties not reported)" because many of the correspondents regard "club" as a varietal name.

The total estimated acreage of club wheats in 1944 was 466,293 acres, or 0.71 percent of the total wheat acreage. This type of wheat is raised chiefly in Washington, Oregon, Idaho, and California, with small acreages in Montana and Utah. The distribution in 1944 is shown in figure 69. The real production centers are Whitman County, Wash., and Umatilla County, Oreg. In 1944 Hymar was the leading variety of club wheat, being grown on 43.9 percent of the acreage. It was also the leading variety in 1939, but at that time Albit was almost as important. At present Albit is grown on a greatly reduced acreage. Hybrid 128 ranked second in acreage with 106,645 acres compared with 204,672 acres for Hymar. Albit increased during the last 5 years and ranks third with 62,643 acres. All of the other varieties were grown on less than 30,000 acres.

The acreage of the red club varieties is decreasing; in fact, only one, Hybrid 123, was reported in 1944, and it occupied only 6,431 acres.

EXPERIMENT STATION PRODUCTIONS

The 1944 wheat varietal survey shows that 216 recognized varieties were grown commercially in the United States on about 65½ million acres. Of these varieties, 110 were produced by breeding or selection at State or Federal agricultural experiment stations. Most of them were produced in experiments cooperative between both agencies. These 110 varieties were grown on nearly 33 million acres, or slightly more than half the acreage.



FIGURE 68.—Hybrid 128.
106,645 acres.

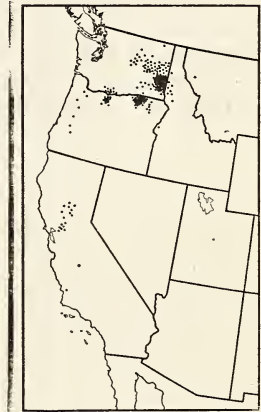


FIGURE 69.—Club wheats.
466,293 acres.

The remaining varieties, grown on nearly half the area, were developed by private breeders or are introductions from other countries. Many of the latter were bred at foreign experiment stations, particularly in Canada and Australia. Some of these foreign wheats were introduced by the United States Department of Agriculture and distributed by State or Federal stations. Private breeders in the United States have developed 44 of the varieties, which were grown on about 161½ million acres or slightly more than 25 percent of the total acreage.

STANDARDIZATION OF VARIETIES

The varieties of wheat most widely grown usually are those best adapted. However, new varieties are continually being developed by Federal, State, and private breeders. The United States Department of Agriculture and the State agricultural experiment stations test new varieties in comparison with the old, and thus are in a position to recommend the best variety or varieties for each locality and State. The agricultural extension services, using the information developed by Federal and State experiment stations, advise growers as to the best variety for any particular locality. From the data presented it would seem that more consideration should be given to eliminating the poorer varieties and to the distribution of new ones, since the newly improved varieties are not replacing old varieties so rapidly nor so completely as seems desirable.

